

PVM-96/96E/136/146E

SERVICE MANUAL

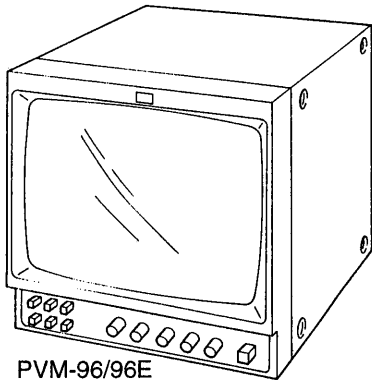
REVISED-1

US Model
Canadian Model

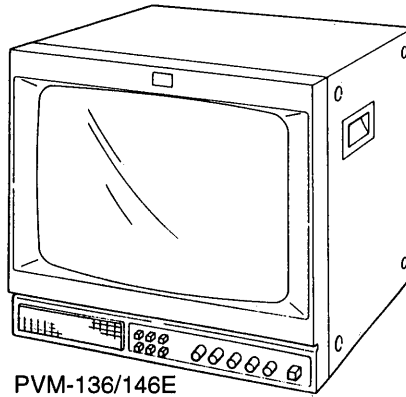
PVM-96/136

AEP Model

PVM-96E/146E



PVM-96/96E



PVM-136/146E

SPECIFICATIONS

Video signal

Resolution PVM-96/96E: 900 TV lines
PVM-136/146E: 1000 TV lines
Frequency response 10.0 MHz (Less than -3.0 dB)

Picture performance

Normal scan 8% overscan of CRT effective screen area
Underscan (PVM-96/96E, PVM-136/146E only) 3% underscan of CRT effective screen area
H. linearity Less than 8.0% (typical)
V. linearity Less than 7.0% (typical)
Color temperature 6500K

Inputs and Outputs

Inputs VIDEO IN (LINE A, LINE B): BNC connectors, 1Vp-p, sync negative
AUDIO IN (LINE A, LINE B): phono jacks
EXT SYNC: BNC connector, 4 Vp-p, sync negative

Loop-through outputs

VIDEO OUT (LINE A, LINE B): BNC connectors, 75 ohms terminated
AUDIO OUT (LINE A, LINE B): phono jacks
EXT SYNC: BNC connector, 75 ohms terminated
REMOTE: 8-pin mini DIN connector (See the figure in "Pin assignment".)

Remote input

General

Picture tube

PVM-96/96E:
21.7-cm (8⁵/₈ inches) picture measured diagonally
23.7-cm (9³/₈ inches) picture tube measured diagonally
PVM-136/146E:
32.1-cm (12⁵/₈ inches) picture measured diagonally
34.8-cm (13³/₄ inches) picture tube measured diagonally

Power consumption

PVM-96: 28 W Max.
PVM-96E: 0.3 - 0.18 A, 26 W.
PVM-136: 30 W Max.
PVM-146E: 0.3 - 0.18 A, 28 W.
PVM-96/136:
120 V AC, 50/60 Hz

-Continued on next page-

BLACK AND WHITE VIDEO MONITOR
SONY®



Power requirements PVM-96E/146E:
100 – 240 V AC, 50/60 Hz

Operating temperature range
0 – 35°C (32 – 95°F)

Storage temperature range
–10 – 40°C (14 – 104°F)

Humidity 0 – 90%

Dimensions PVM-96/96E:
Approx. 217 × 218 × 250 mm (w/h/d)
(8⁵/₈ × 8⁵/₈ × 9⁷/₈ inches)

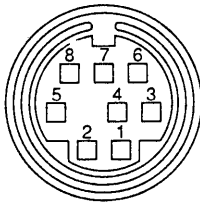
PVM-136/146E:
Approx. 346 × 340 × 330 mm (w/h/d)
(13⁵/₈ × 13¹/₂ × 13 inches)
not incl. projecting parts and
controls

Mass PVM-96/96E: Approx. 5.5kg
(12 lb 2 oz)
PVM-136/146E: Approx. 11kg
(24 lb 4 oz)

Accessories supplied
AC power cord (1)
AC plug holder (1 set)
Cable with on 8pin connector (1)

Pin assignment

REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	LINE
2	INT/EXT SYNC
3	GND
4	16:9
5	H/V delay
6	Notch
7	Tally
8	Underscan

For remote control, connect the pin of the desired function to pin 3 (GND).

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery-operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

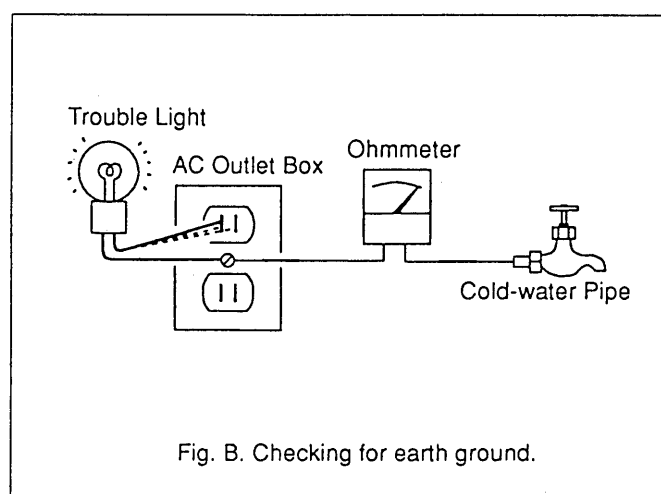
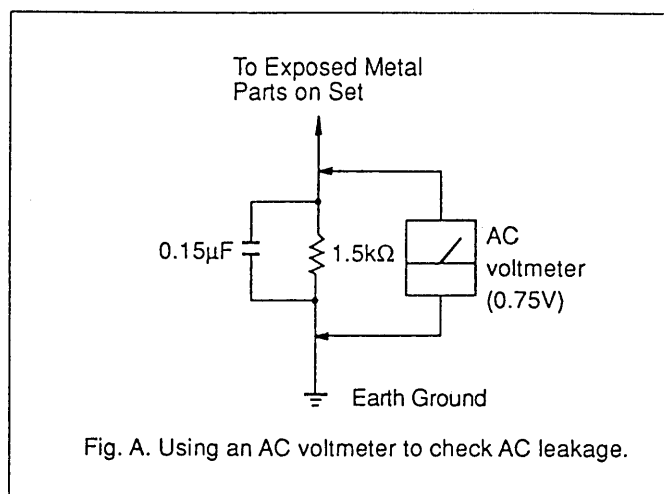


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

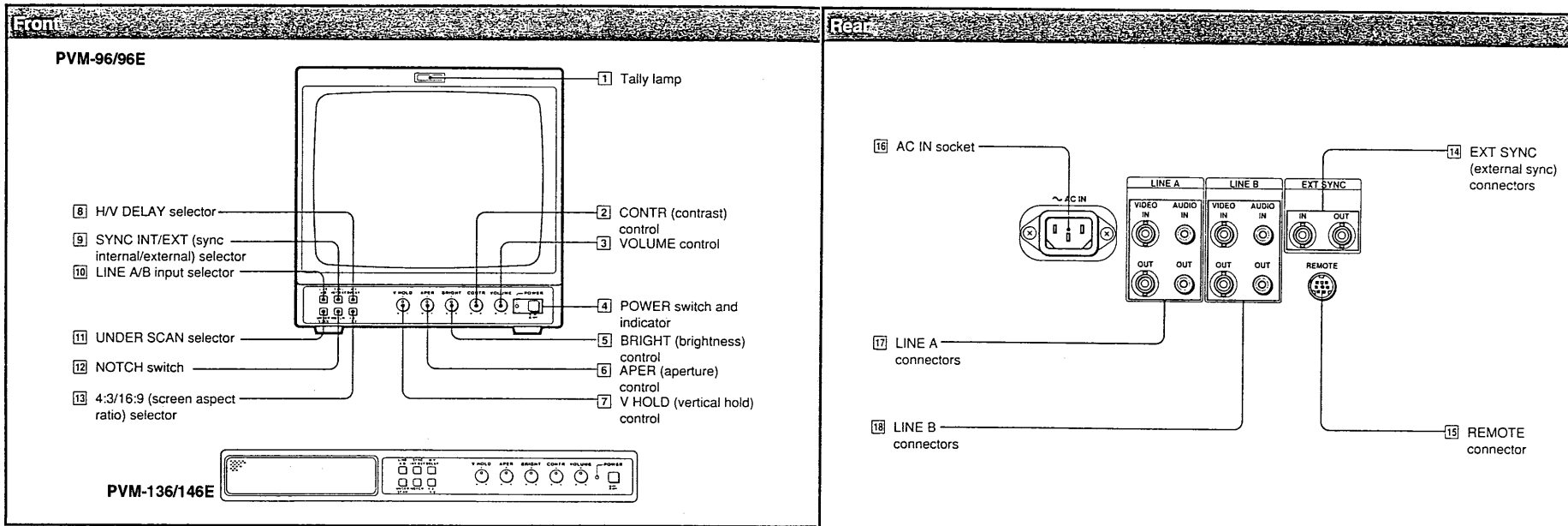
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

Location and Function of Parts and Controls

Location and Function of Parts and Controls



- 1 Tally lamp**
- 2 CONTR (contrast) control**
Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.
- 3 VOLUME control**
Turn this control clockwise or counterclockwise to obtain the desired volume.
- 4 POWER switch and indicator**
Depress to turn the monitor on. The indicator will light up in green.
- 5 BRIGHT (brightness) control**
Turn clockwise for more brightness and counterclockwise for less.
- 6 APER (aperture) control**
Turn clockwise for more sharpness and counterclockwise for less.
- 7 V HOLD (vertical hold) control**
Turn to stabilize the picture if it rolls vertically.
- 8 H/V DELAY selector**
Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

- 9 SYNC INT/EXT (sync internal/external) selector**
Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal. Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.
- 10 LINE A/B input selector**
Keep this button released (A) for a signal fed through the LINE A connectors. Depress this button (B) for a signal fed through the LINE B connectors.
- 11 UNDER SCAN selector**
Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.
- 12 NOTCH switch**
Normally keep this switch released (off) to obtain fine picture details without spill or noise. Depress this switch (on), when stripes appear because of color video signals fed through the connected equipment.
- 13 4:3/16:9 (screen aspect ratio) selector**
Normally keep this button released to view the screen with a 4:3 aspect ratio. Depress this button to view the screen with a 16:9 aspect ratio.

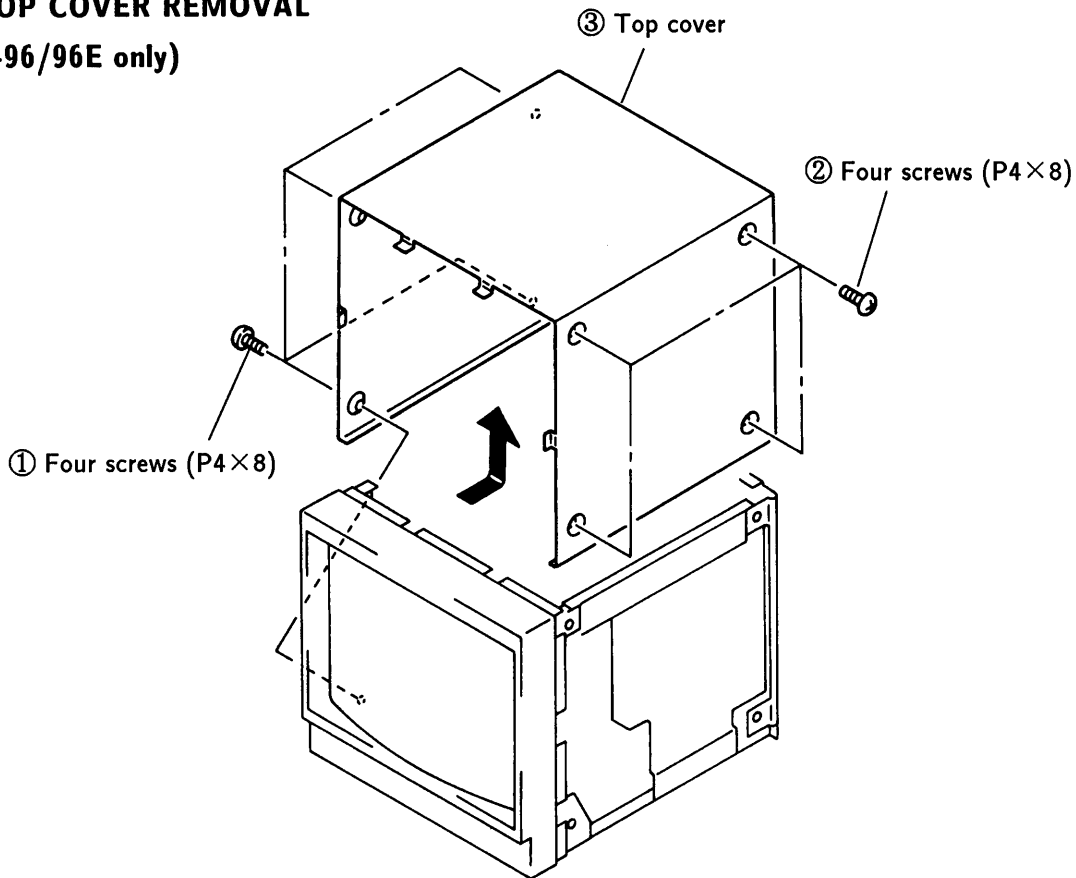
- 14 EXT SYNC (external sync) connectors**
IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector on the front panel (EXT).
OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.
- 15 REMOTE connector (8-pin mini DIN)**
Connecting this connector to a switcher enables power on/off control. For PVM-96E/146E, this connector can also be used for connecting to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. For this connector's pin assignment, see "Specifications" on page 6.
- 16 AC IN socket**
Connect the AC power cord (supplied) to this socket and to a wall outlet.
- 17 LINE A connectors**
To monitor a signal fed through these connectors, keep the LINE A/B input selector released on the front panel.

- VIDEO IN (BNC):** Connect to the video output of a video camera, VCR or other video equipment.
VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.
AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).
AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

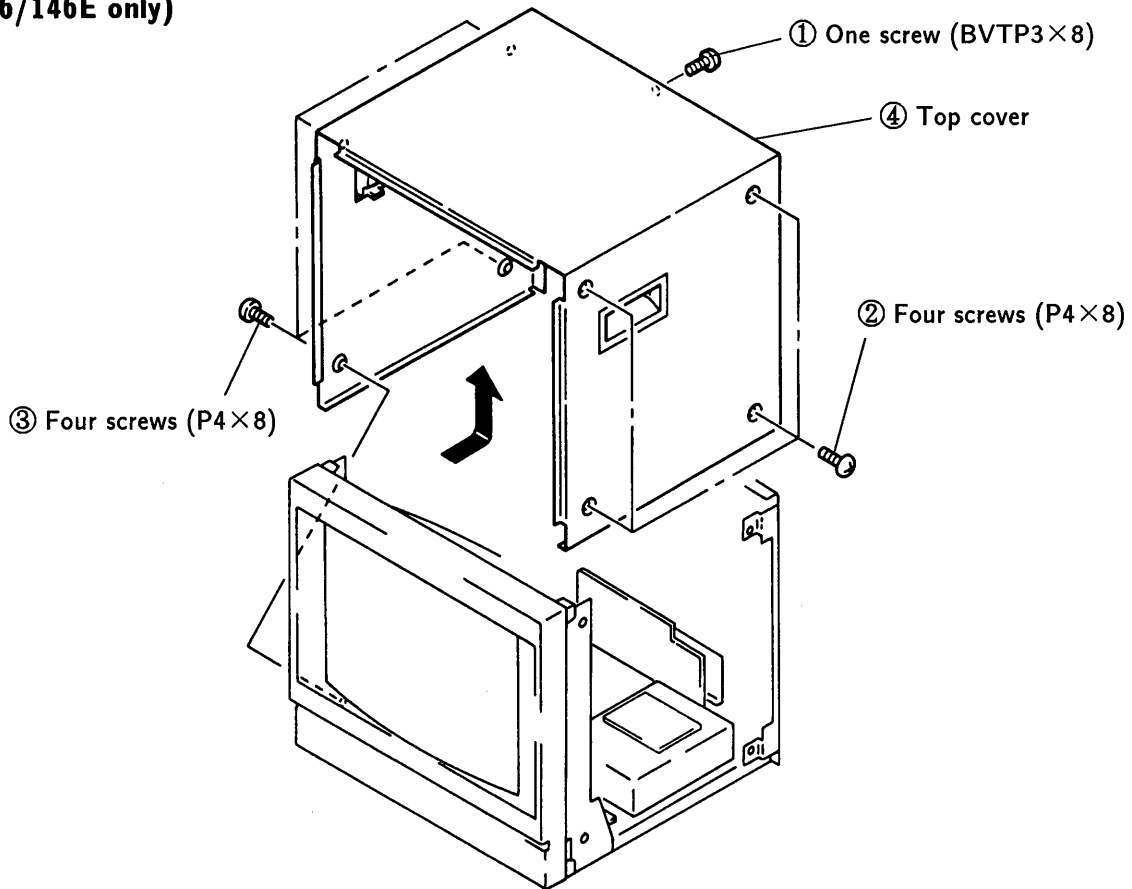
- 18 LINE B connectors**
To monitor a signal fed through these connectors, depress the LINE A/B input selector on the front panel.
- VIDEO IN (BNC):** Connect to the video output of a video camera, VCR or other video equipment.
VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.
AUDIO IN (phono jack): Connect to the radio output of a VCR or a microphone (through a suitable microphone amplifier).
AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

SECTION 2 DISASSEMBLY

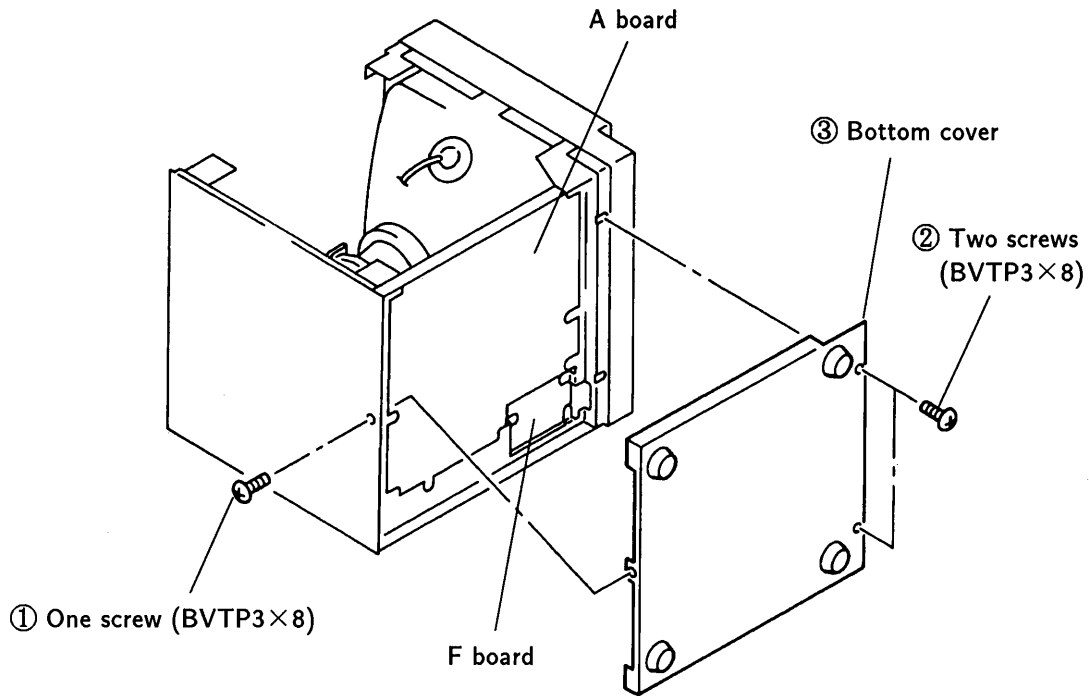
2-1. TOP COVER REMOVAL (PVM-96/96E only)



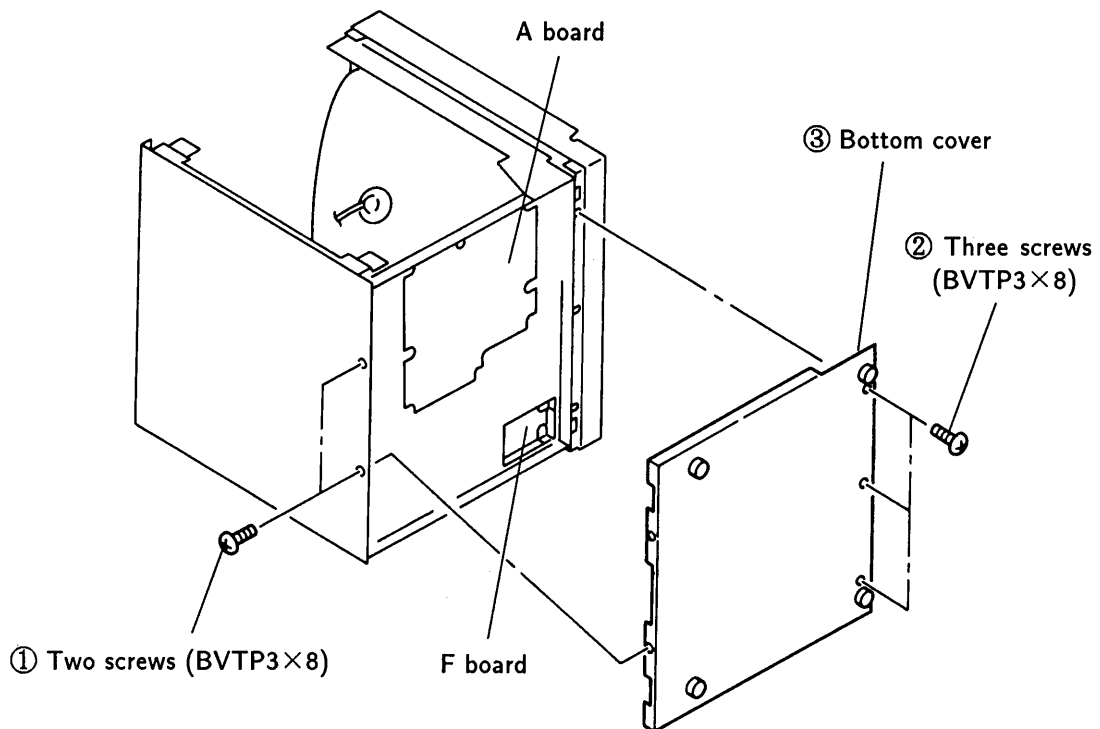
(PVM-136/146E only)



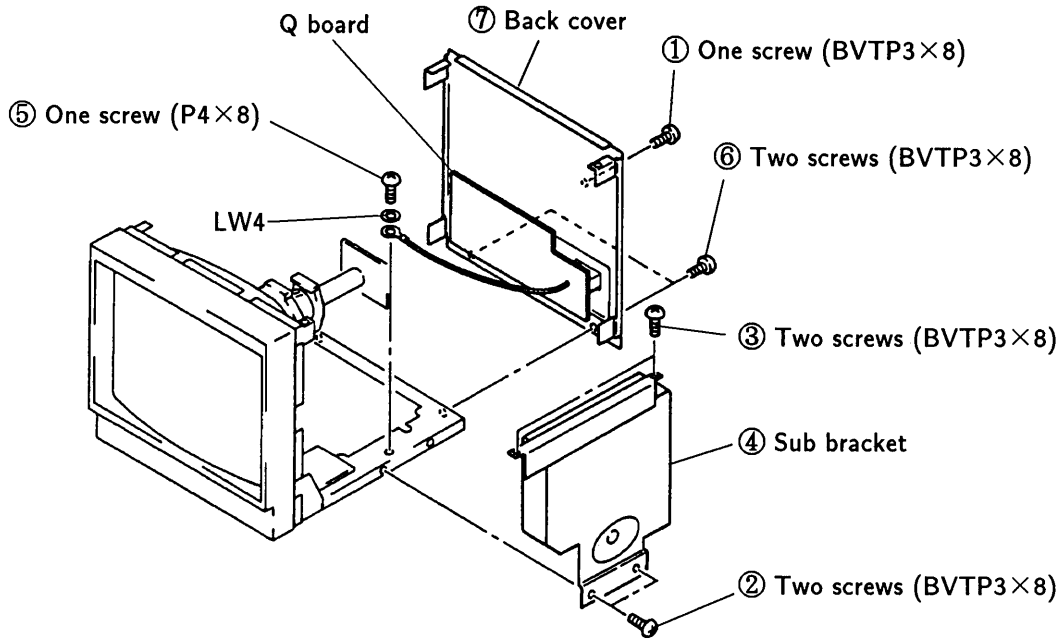
2-2. SERVICE POSITION (PVM-96/96E only)



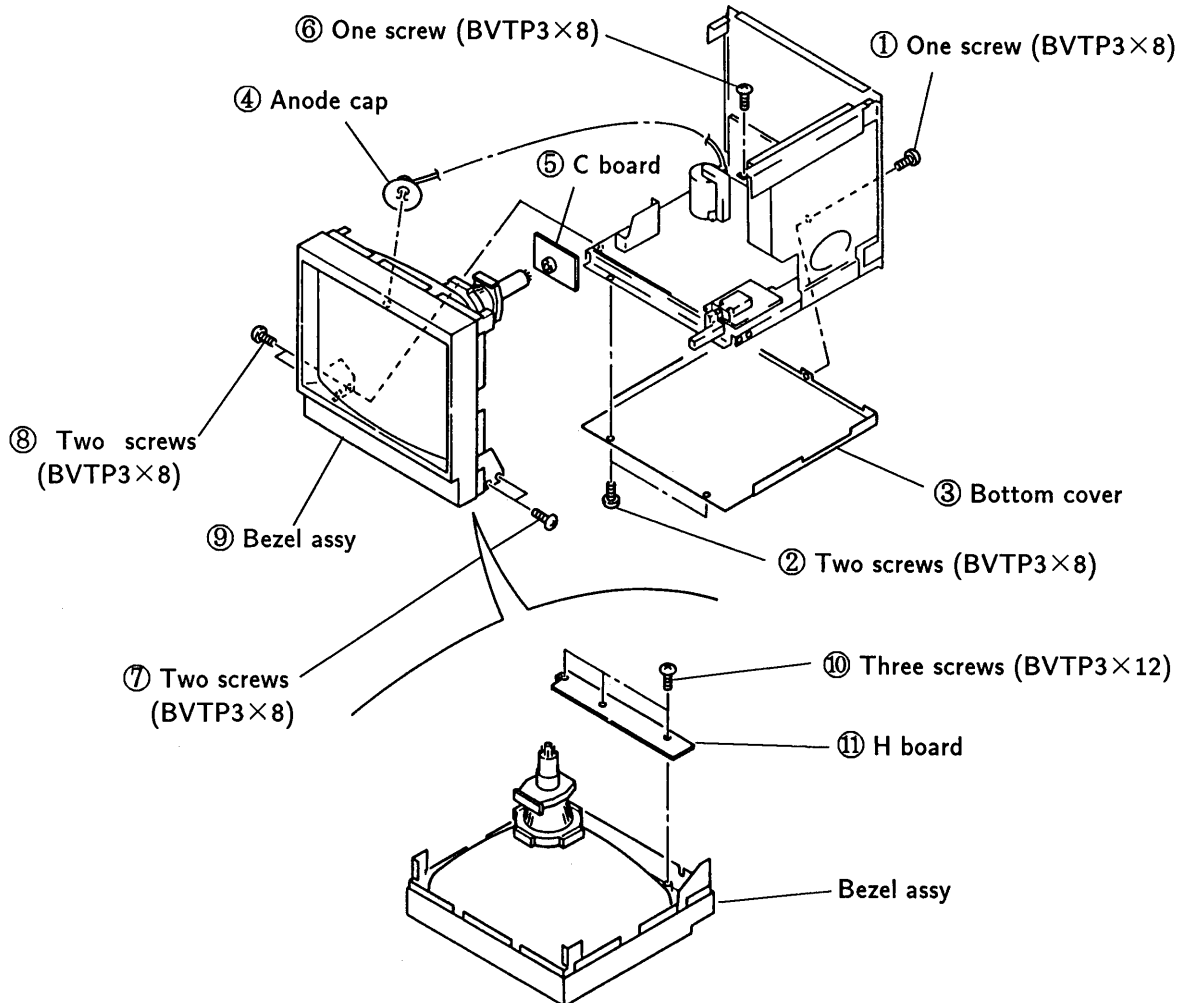
(PVM-136/146E only)



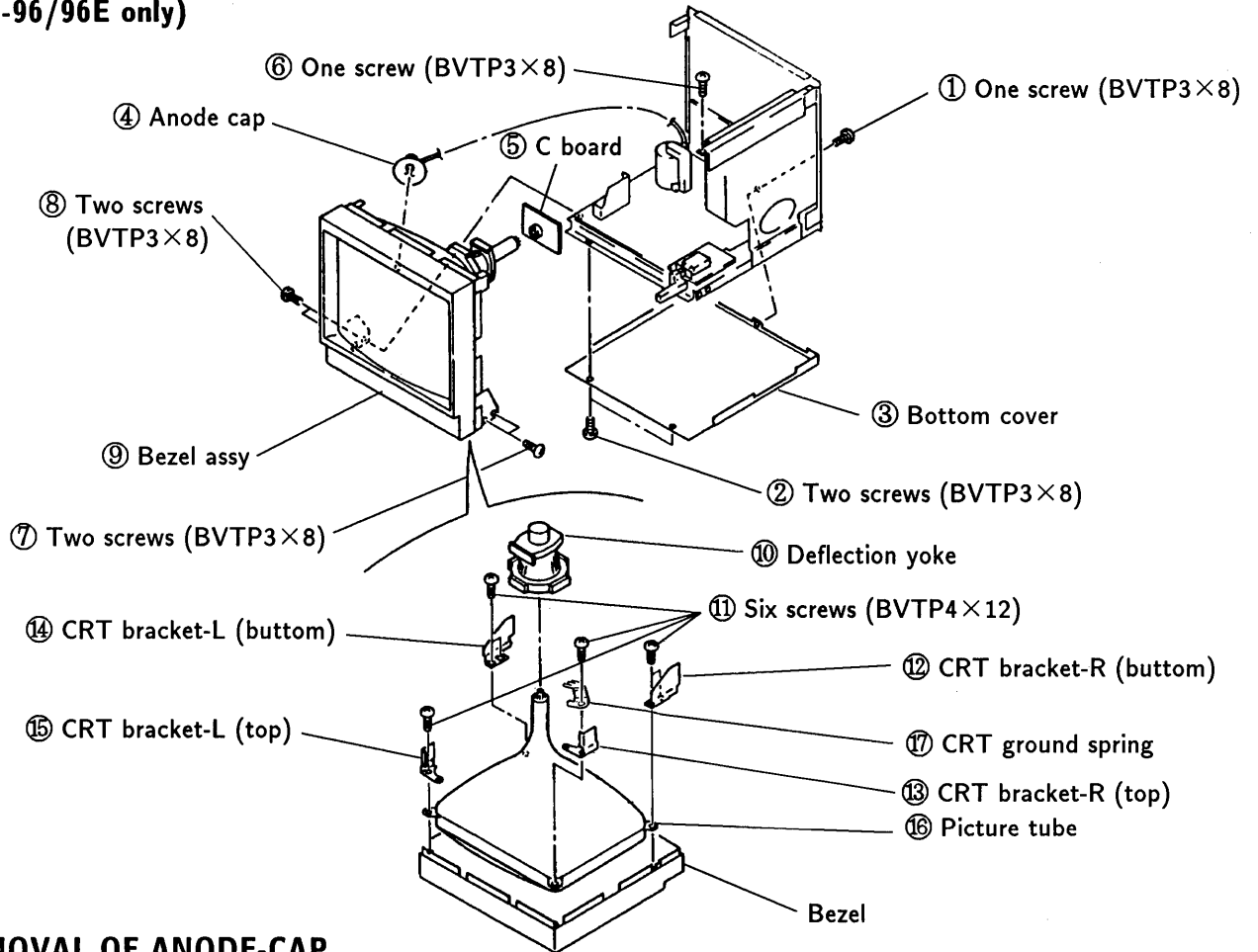
2-3. Q BOARD REMOVAL (PVM-96/96E only)



2-4. H BOARD REMOVAL (PVM-96/96E only)



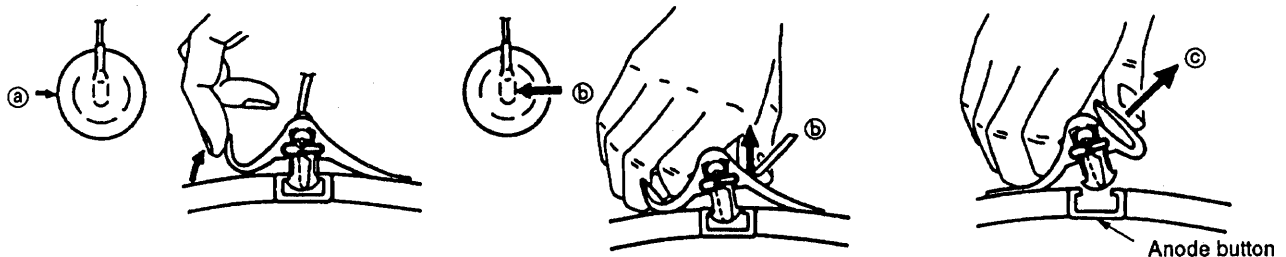
2-5. PICTURE TUBE REMOVAL (PVM-96/96E only)



• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

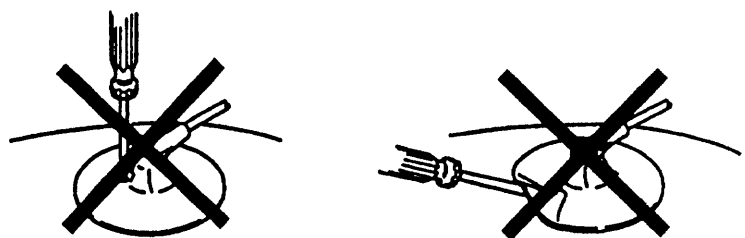
• REMOVING PROCEDURES



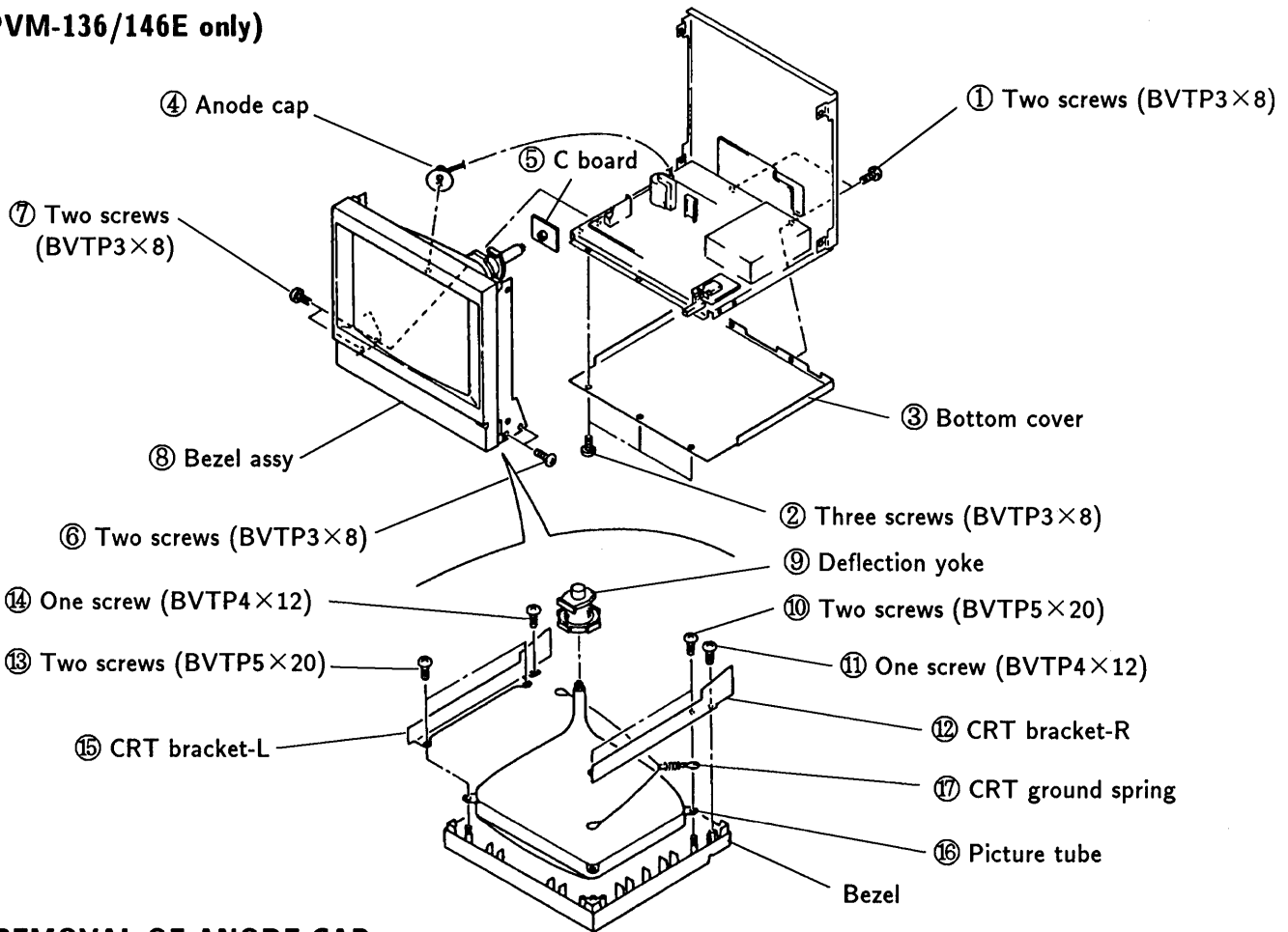
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardy not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardy!
The shatter-hook terminal will stick out or hurt the rubber.



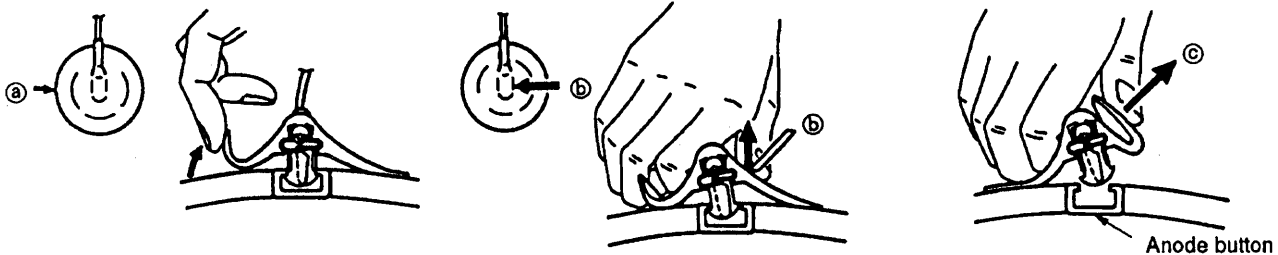
(PVM-136/146E only)



• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES



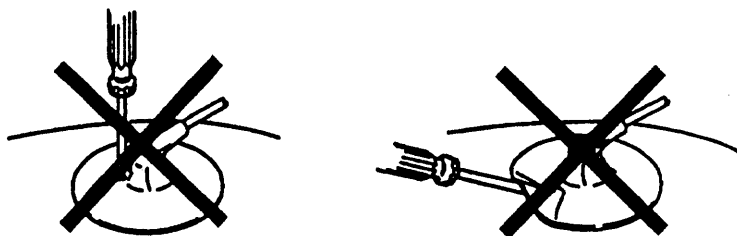
① Turn up one side of the rubber cap in the direction indicated by the arrow ①.

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The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SAFETY RELATED ADJUSTMENTS

(US Model only)

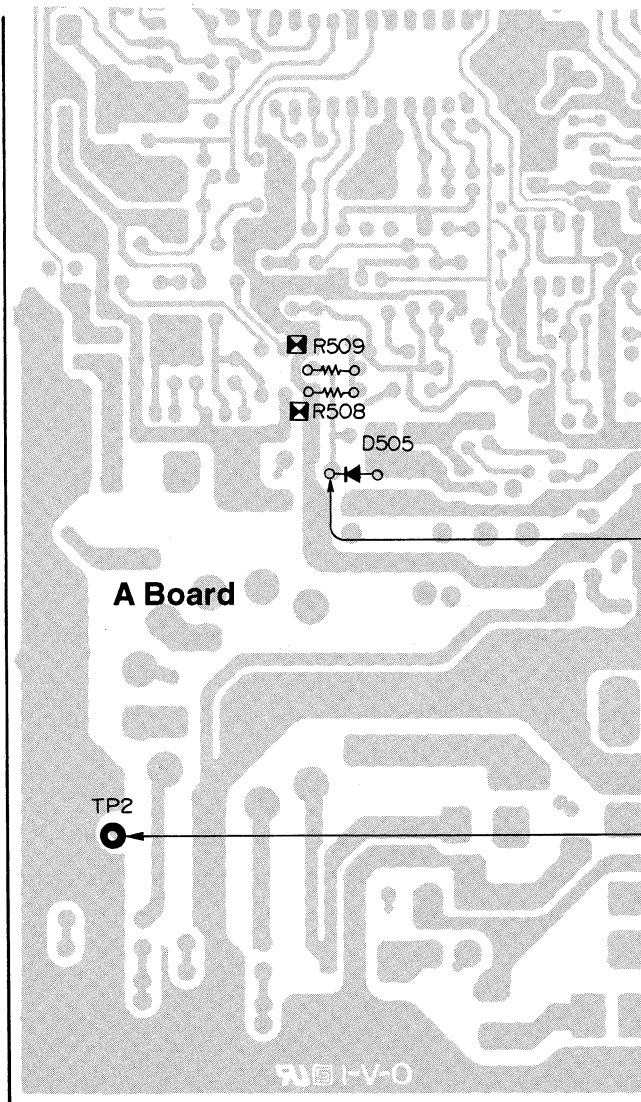
3-1. SAFETY RELATED ADJUSTMENT

B+ MAX CONFIRMATION (☒ : RV651)

The following adjustments should always be performed when replacing the following components (marked ☒ on the schematic diagram).

☒ on the G board : R656, R657, R658, RV651

1. Supply $120.0 \pm 2.0V$ AC to with variable auto-transformer.
2. Receive an entire white signal.
3. CONTRAST normal
BRIGHTNESS normal
4. Connect a digital multimeter to the TP 2 (CN501 pin -①) on the A board.
5. Adjust RV651 on the G board for $24.0 \pm 0.2VDC$.
6. After adjusting, fasten RV651 in place with epoxy.



HOLD-DOWN CIRCUIT CONFIRMATION READJUSTMENTS (☒ : R508, R509)

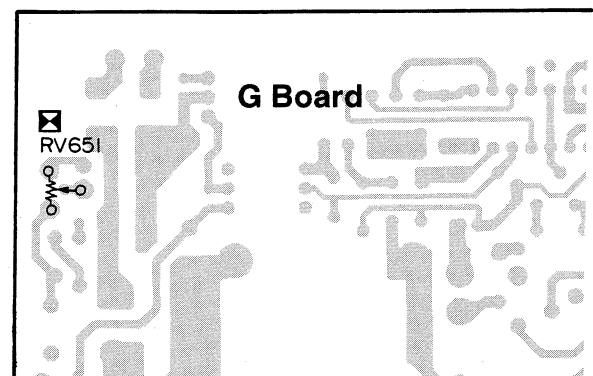
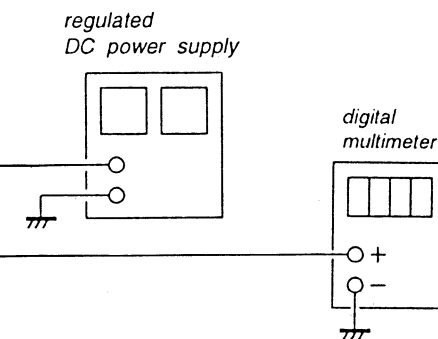
The following adjustments should always be performed when replacing the following components (marked ☒ on the schematic diagram).

☒ on the A board :

C518, C519, C520, C523, C524, D502, L502, R508, R509, T502 (FBT)

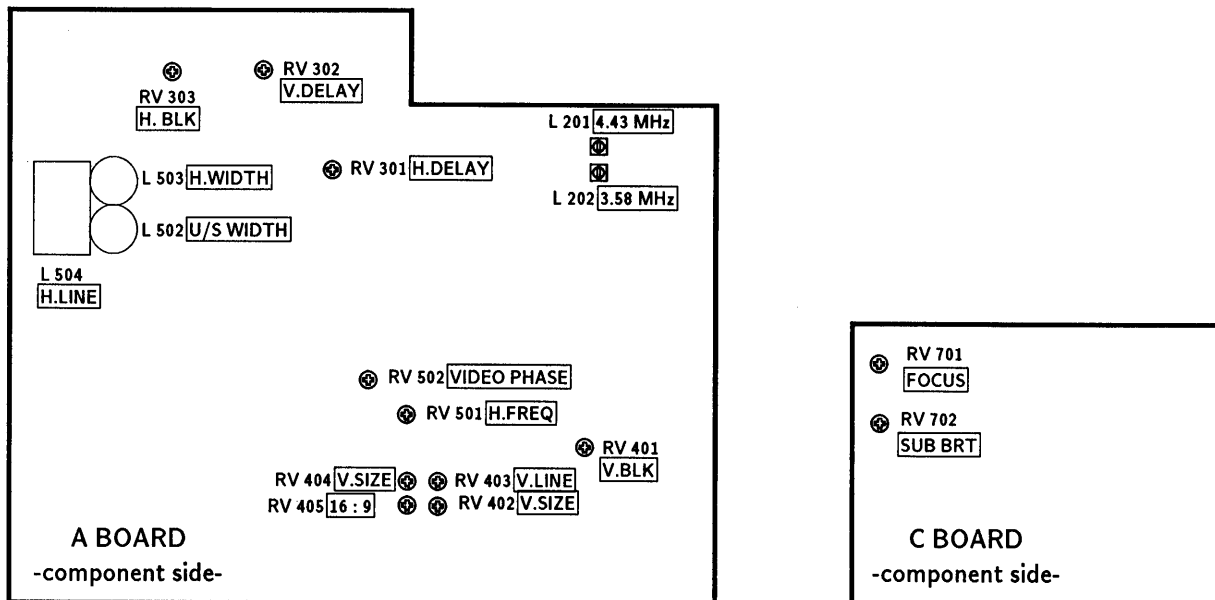
1. Supply $120.0 \pm 2.0V$ AC to with variable auto-transformer.
2. Receive an entire white signal.
3. CONTRAST Minimum
BRIGHTNESS Minimum
4. Apply an external DC voltage gradually to cathod of D505 on the A board, When the voltage becomes 14.5V DC (PVM-96 only), 15.5 V DC (PVM-136 only) confirm the HOLD-DOWN circuit operates immediately and raster disappears.
5. When above specifications are not satisfied, readjust R508 and R509.

* Use a digital multimeter whose input impedance over $100M \Omega$ when confirming the voltage of the protector terminal of H.V.R.



SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A AND C BOARDS ADJUSTMENT



ROUGH ADJUSTMENTS OF H. AND V. SIZE (L 503, R 402)

1. Input monoscope signal into video signal input terminal of line A.
2. Loosen deflection yoke fixing screw to adjust tilted image and fasten screw after adjustment.
3. Make rough adjustments to obtain 15.5 frames in H. size and 12 frames in V. size by turning L503 (H. WIDTH) and RV402 (V.SIZE) respectively.

HORIZONTAL OSCILLATING ADJUSTMENT (RV 501)

1. Connect electrolytic capacitor of $10\mu\text{F}/25\text{V}$ between pin ① of connector CN201 and grounding on "A" board.
2. Adjust RV501 (H. FREQ) to hold flowing image.

SUB BRIGHTNESS ADJUSTMENT (RV702)

1. Input gray scale signal into video signal input terminal of line A.
2. Set BRIGHT knob at the center and CONTR knob at the minimum position.
3. Adjust RV702 (SUB. BRT) on "C" board so that 20 IRE part of gray scale glows slightly.

ADJUSTMENT IMAGE DISTORTION

1. Input cross hatching signal into video signal input terminal of Line A.
2. Adjust vertical and horizontal pin distortions with disk magnet.
3. Input monoscope signal into video signal input terminal of line A.
4. Adjust with disk magnet until corner circle becomes to true circle.

ADJUSTMENT OF H. AND V. CENTER

Adjust horizontal center and vertical center with centering magnet.

H. LINE ADJUSTMENT (L 504)

Turn L 504 (H. LINE) on "A" board so that the horizontal length will be the same in either direction from the center of image.

V. LINE ADJUSTMENT (RV 403)

Turn RV403 (V. LINE) on "A" board so that the vertical length will be the same in either direction from the center of image.

H. AND V. SIZE FINE ADJUSTMENT (L 503, RV 402)

1. Input monoscope signal into video signal input terminal of line A.
2. Set BRIGHT knob at 50% position and CONTR knob at 80% position.
3. Turn L503 (H. WIDTH) and RV402 (V. SIZE) to obtain the following number of frames.

(PVM-96/96 E only)

H. SIZE : 15.3 frames V. SIZE : 12.0 frames

(PVM-136/146 E only)

H. SIZE : 15.0 frames V. SIZE : 12.0 frames

FOCUS ADJUSTMENT (RV701)

1. Input monoscope signal into video signal input terminal of line A.
2. Set BRIGHT knob at 50% position and CONTR knob at 80% position.
3. Turn RV701 on "C" board to adjust mid point between the center and the corner becomes just in focus while watching focus balance of them.

ADJUSTMENT IN UNDER SCANNING MODE**H. AND V. SIZE FINE ADJUSTMENT (L502, RV404)**

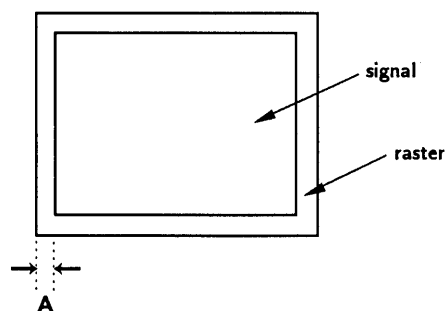
1. Input monoscope signal into video signal input terminal of line A.
2. Set BRIGHT knob at 50% position and CONTR knob at 80% position.
3. Change mode to under scan by pressing under scan switch located in front of the set.
4. Turn both L502 (U/S WIDTH) and RV404 (V. SIZE) to adjust under scan so as to enable corner of monoscope signal touches with the corner of effective image area of CRT.

VIDEO PHASE ADJUSTMENT (RV502)

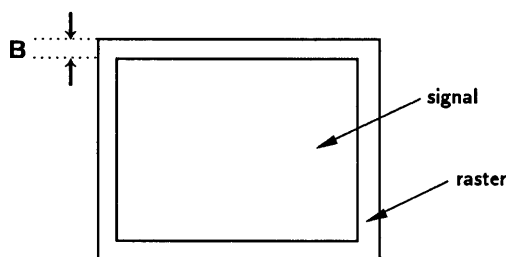
1. Set BRIGHT knob at maximum and CONTR knob at minimum position.
2. Turn RV502 (VIDEO PHASE) so that the luster comes at the center.

H. BLK ADJUSTMENT (RV 303)

1. Set BRIGHT knob at maximum and CONTR knob at minimum position.
2. Turn RV 303 (H. BLK) so that the distance between the luster at left side of CRT and signal part (A) will become approximately 1.0 mm.

**V. BLK ADJUSTMENT (RV401)**

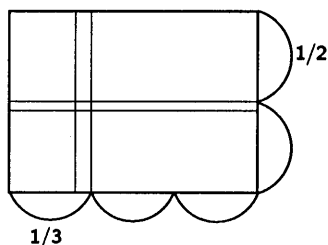
1. Set BRIGHT knob at maximum and CONTR knob at minimum position.
2. Turn RV401 (V. BLK) so that the distance between the luster at top of CRT image and signal part (B) will become approximately 1.0 mm.

**16 : 9 ADJUSTMENT (RV 405)**

1. Input monoscope signal into video signal input terminal of line A.
2. Turn on 16 : 9 switch located on the front panel.
3. Turn RV 405 (16 : 9) to adjust H. to 16 and V. to 9.

H/V DELAY ADJUSTMENT (RV 301, RV 302)

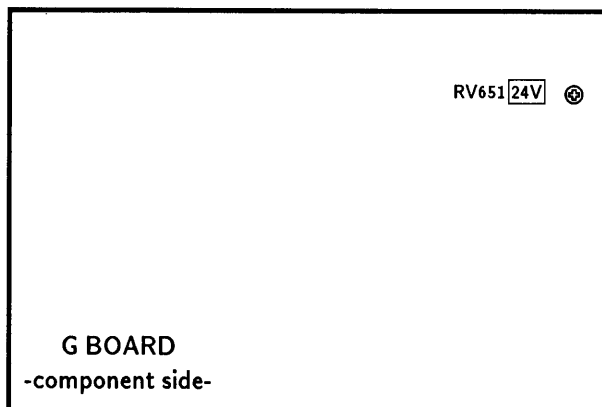
1. Input monoscope signal into video signal input terminal of line A.
2. Turn on H/V delay switch located on the front panel.
3. Turn RV301 (H. DELAY) to adjust so that H. BLK signal part comes at the position of one third of left side of the image.
4. Turn RV302 (V. DELAY) to adjust so that V. BLK signal part comes at the position of one half of vertical direction of the image.



NOTCH ADJUSTMENT (L 201, L 202)

1. Input color bar signal of NTSC into video signal input terminal of Line A.
2. Connect oscilloscope between pin ③ of connector CN 202 and grounding.
3. Adjust L202 (3.58MHz) to minimize color component CN202 and grounding.
4. Input color bar signal of PAL system.
5. Connect oscilloscope between pin ③ of connector CN 202 and grounding.
6. Adjust L201 (4.43MHz) to minimize color component of 4.43MHz.

4-2. G BOARD ADJUSTMENT

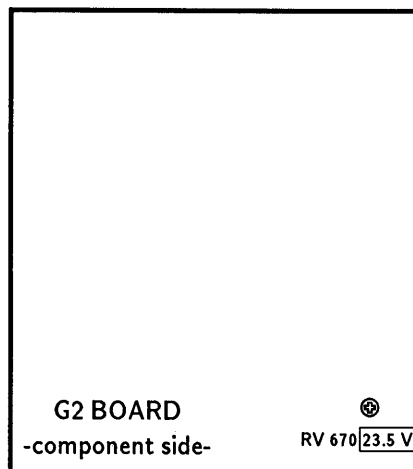


B+ LINE VOLTAGE ADJUSTMENT (RV 651)

Input voltage 120V AC : PVM-96/136 only
 230V AC : PVM-96 E/146E only

1. Input monoscope signal into video signal input terminal of line A.
2. Connect digital multimeter to pin ① of CN501.
3. Turn RV651 to adjust it to 24.0 ± 0.2 VDC.

4-3. G 2 BOARD ADJUSTMENT

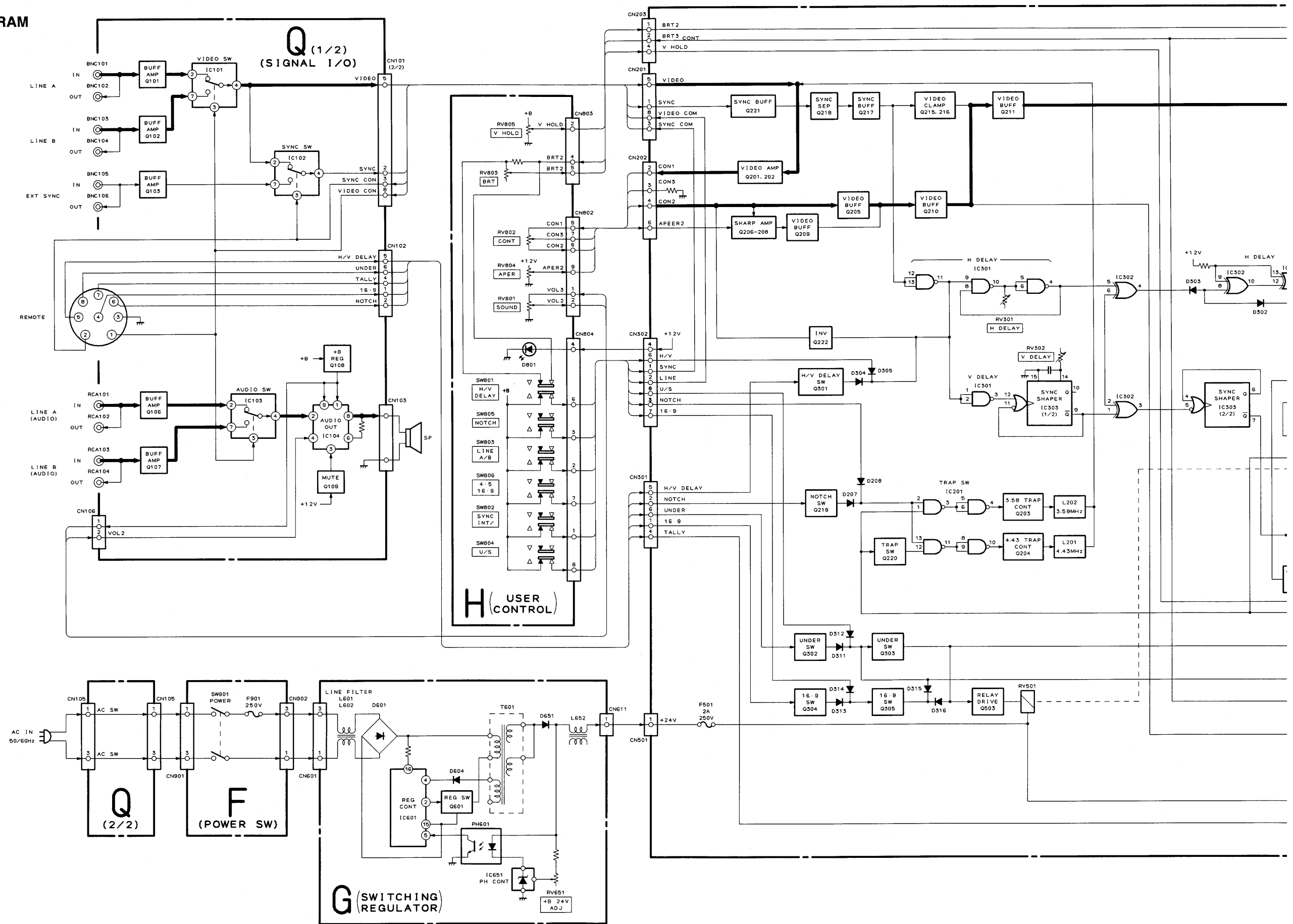


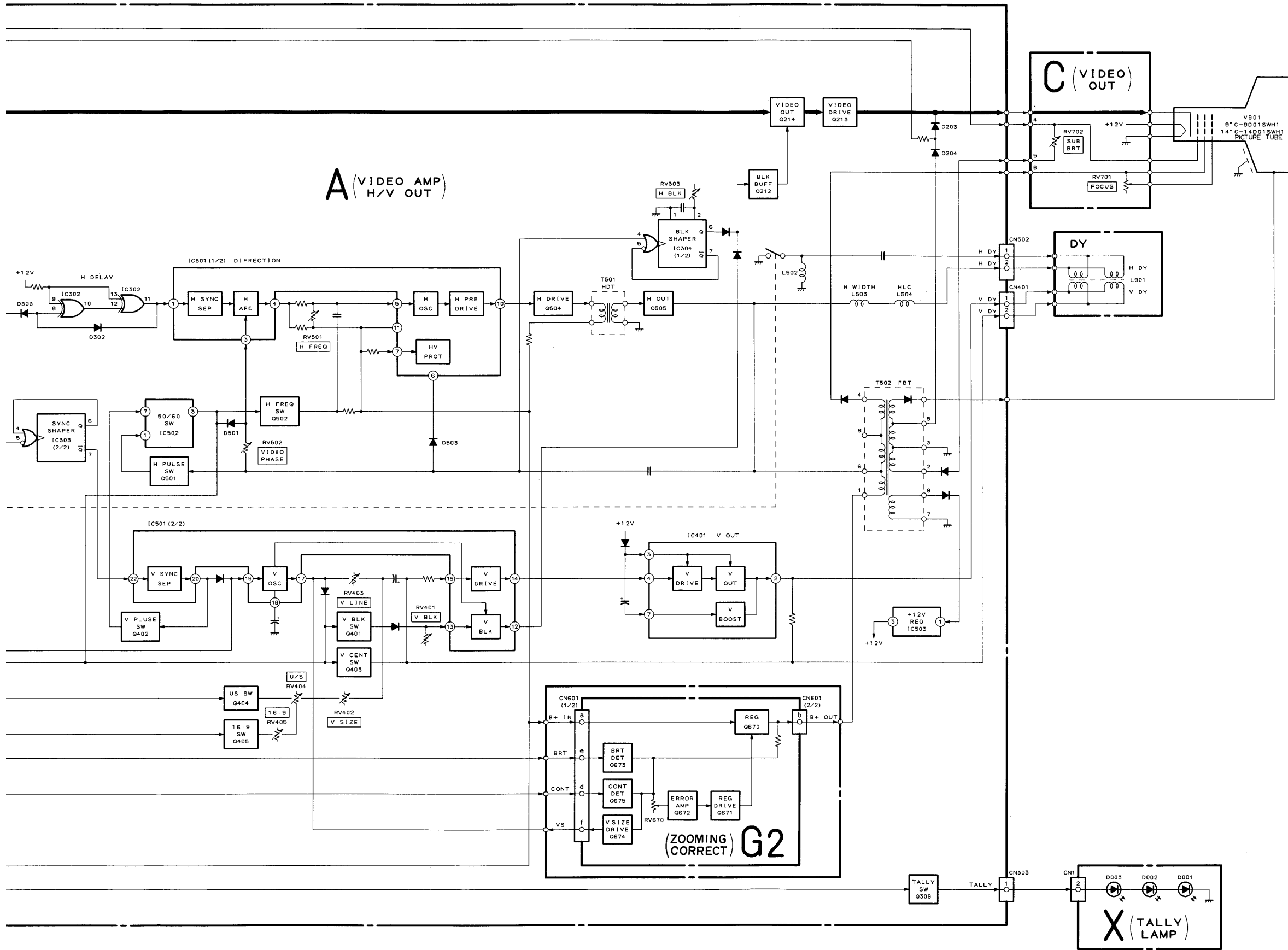
+23.5 V ADJUSTMENT (RV 670)

1. Input monoscope signal into video signal input terminal of line A.
2. Connect digital multimeter to emitter of Q 670.
3. Confirm the voltage is 24.0 ± 0.2 VDC.
4. BRIGHT Minimum
 CONTR Minimum
5. Connect a digital multimeter to the collector of Q670.
6. Turn RV 670 to adjust it to 23.5 ± 0.1 VDC.

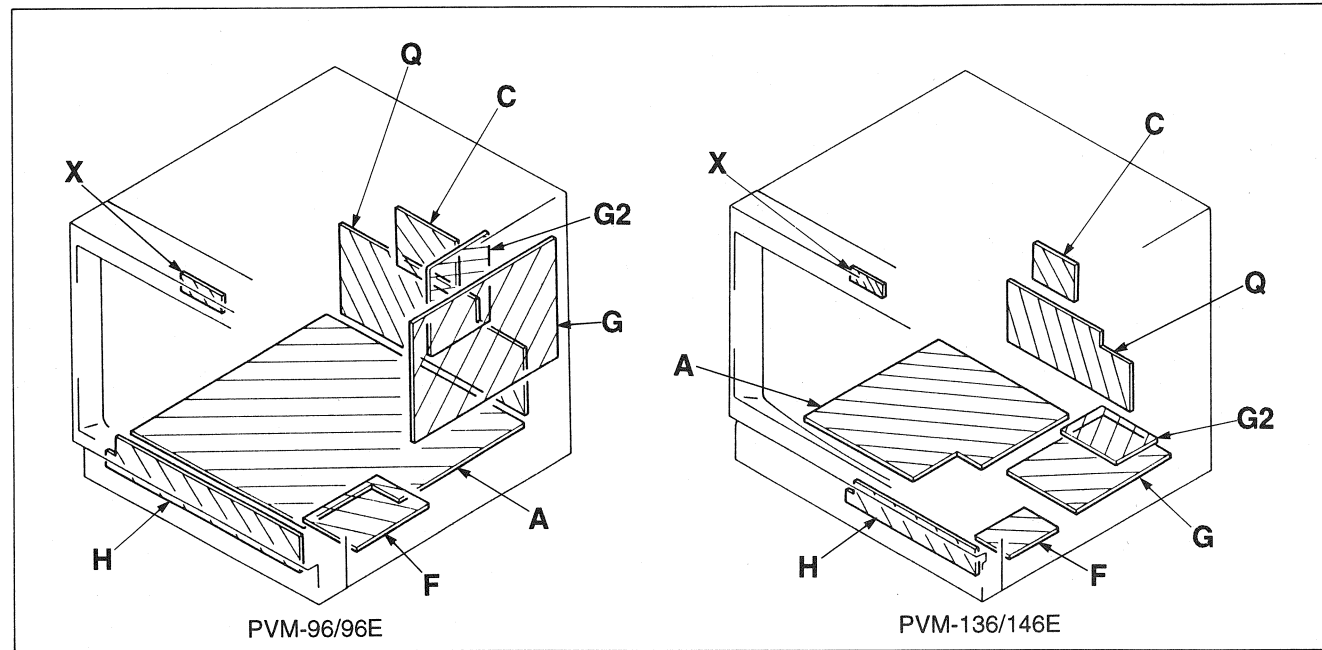
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM





5-2. CIRCUIT BOARDS LOCATION



5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. μF : μF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to RV651, and R406, R408 adjust on page 11.)
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced()	Adjustment()
G BOARD RV651, R656, R657, R658	RV651 (B+ MAX)
A BOARD C518, C519, C520, C523, C524, D502, L502, R508, R509, T502(FBT)	R508, R509 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- : B- bus.
- : signal path.
- Color-bar signal received or common voltage.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR

- CAPACITOR : TA TANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

Note:

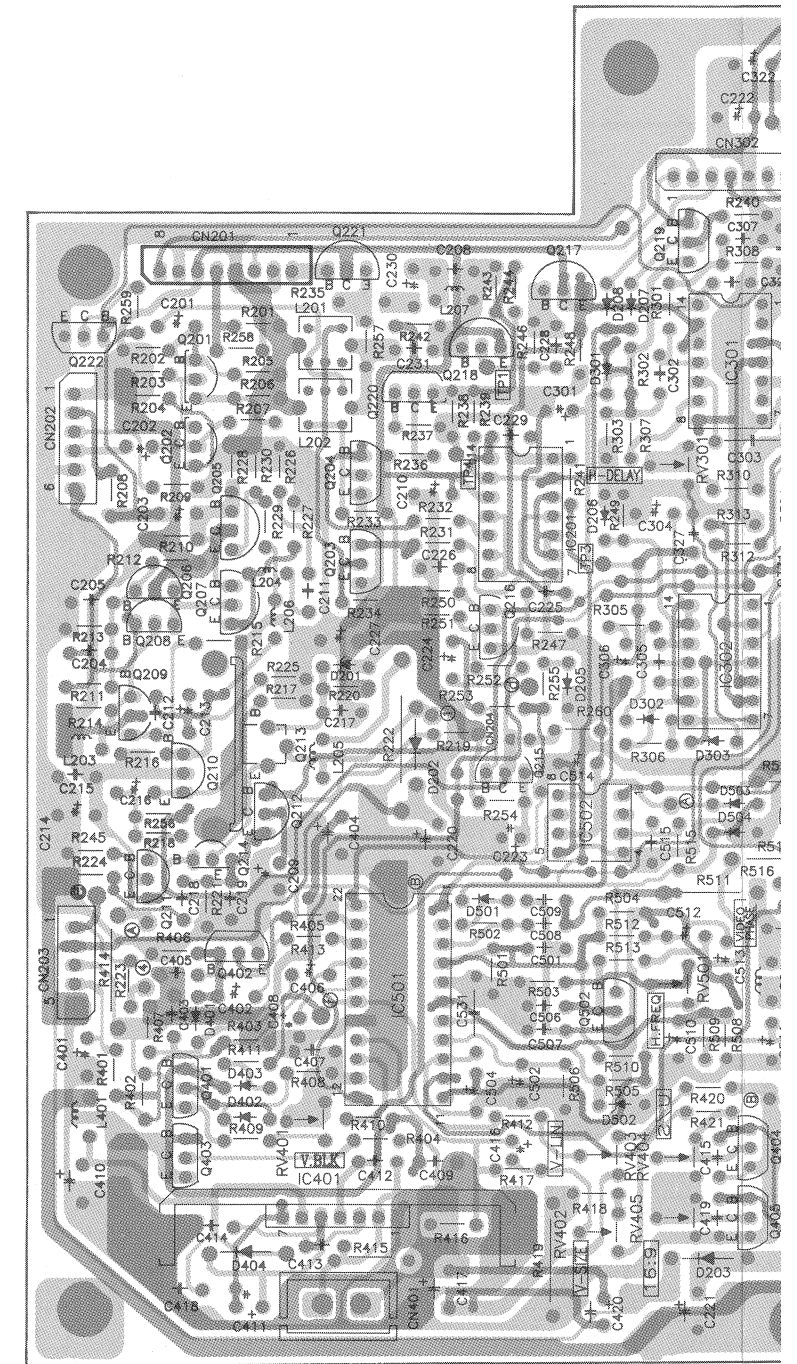
The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note:

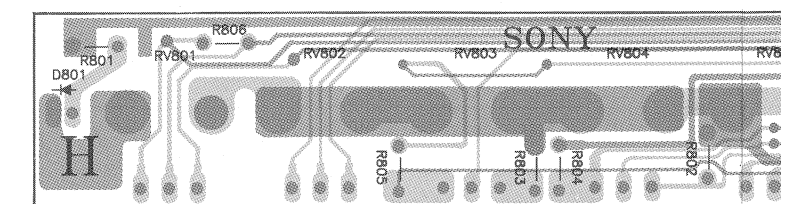
Les composants identifiés par un tramé et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



- A Board -



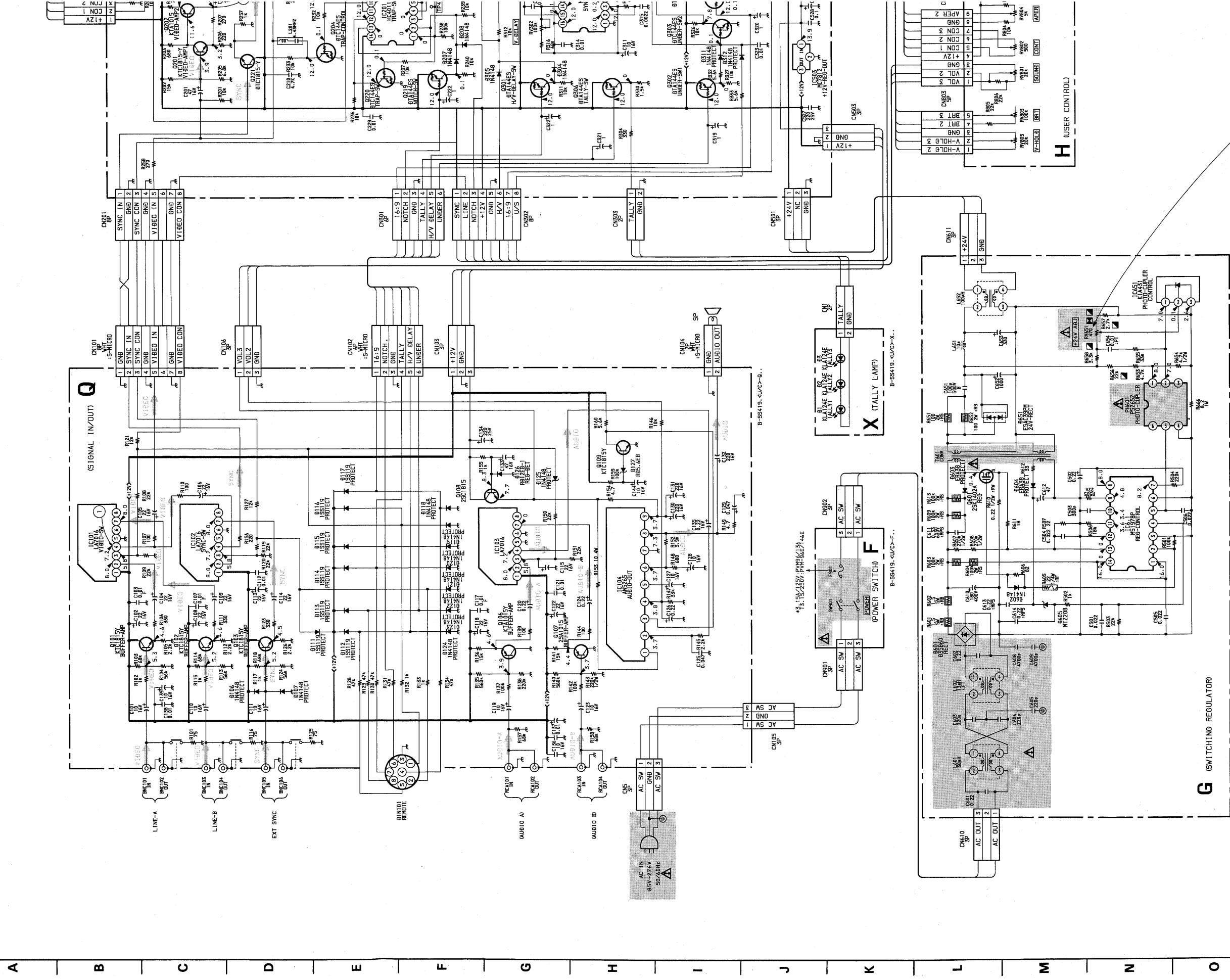
- H Board -

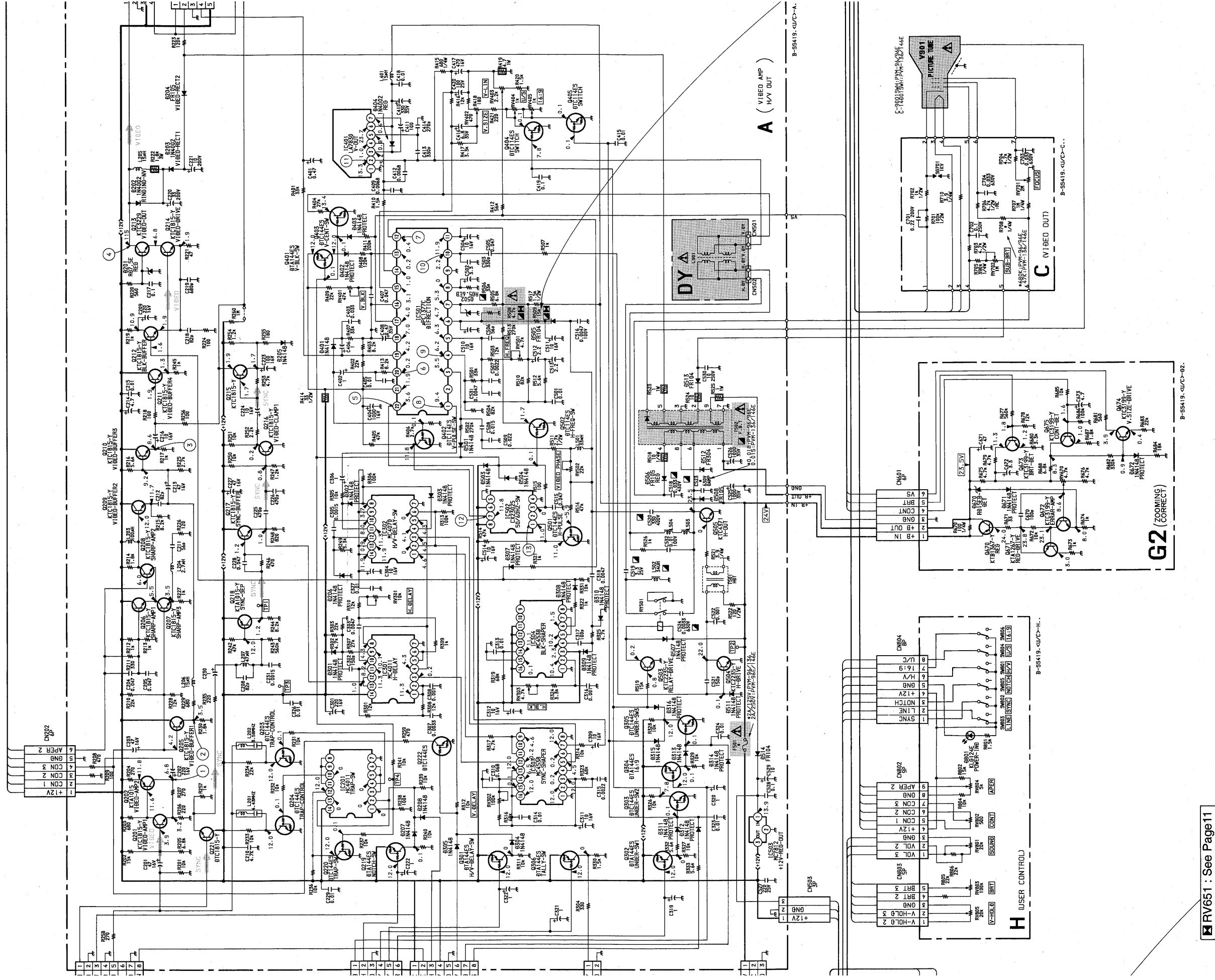


A/C/F/G/G2/H/Q/X

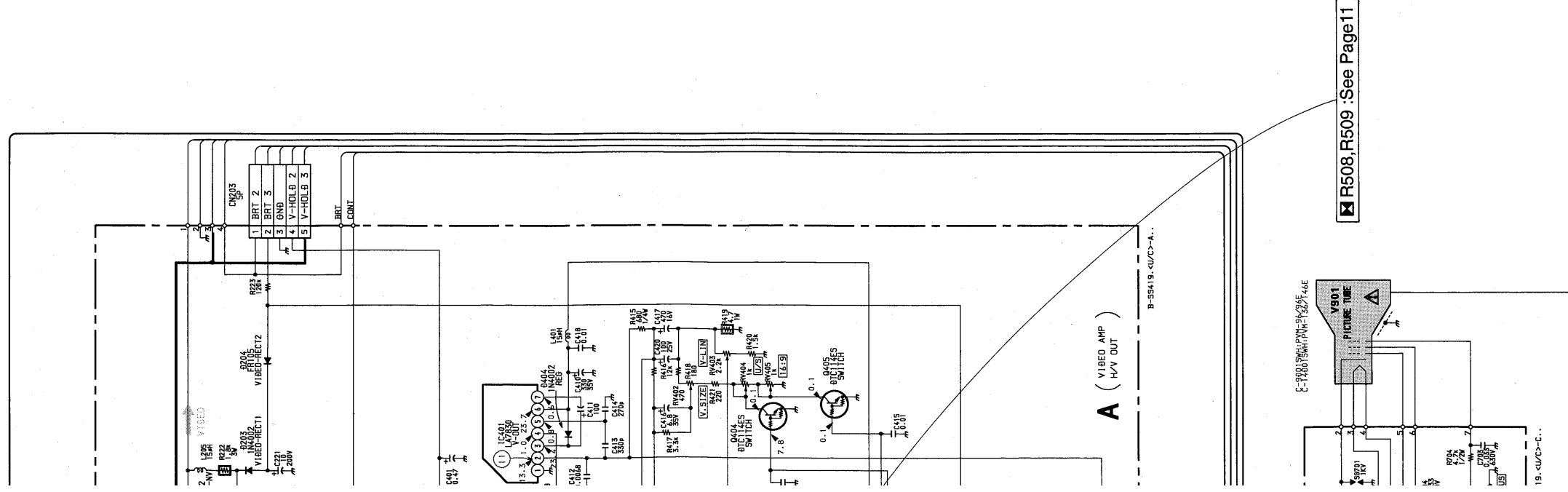
The following have been divided into 3 sections as noted on the grid shown below.

A1	A2	A3
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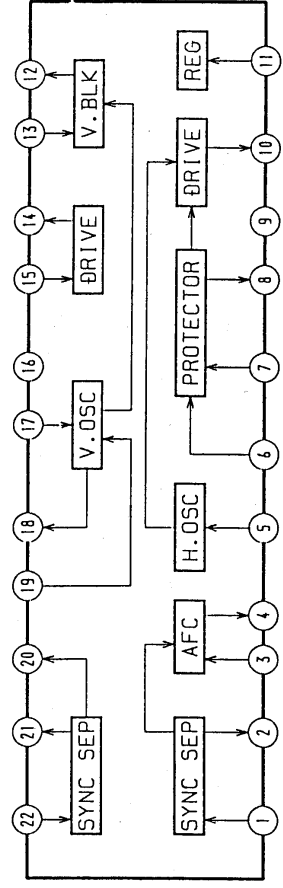




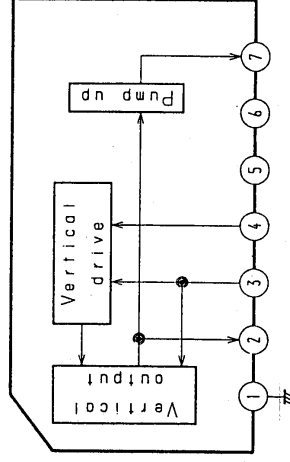
RV651: See Page 11



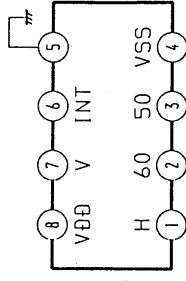
A BOARD IC501 UPC1377C



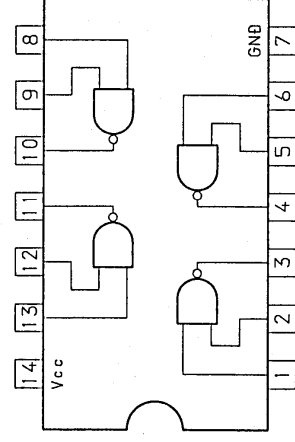
A BOARD IC401 LA7830



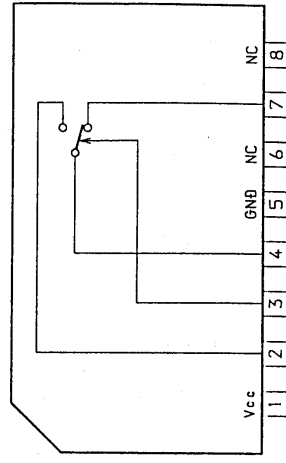
A BOARD IC502 CX23025



A BOARD IC301 MC4011



Q BOARD IC101,102,103 LA7016



A BOARD WAVEFORMS

①	②	③
④	⑤	⑥
⑦	⑧	⑨
⑩	⑪	⑫
⑬	⑭	
1.7 Vp-p (H)	1.3 Vp-p (H)	0 Vp-p (H)
20 Vp-p (H)	0.25Vp-p (V)	4 Vp-p (V)
4 Vp-p (V)	4 Vp-p (H)	60M Vp-p (H)
2.8 Vp-p (H)	20 Vp-p (V)	6.2 Vp-p (V)
5 Vp-p (H)	200 Vp-p (H)	

Q BOARD WAVEFORMS

①
0.8 Vp-p (H)

☑ R508, R509 :See Page11

5-4. SEMICONDUCTORS

<p>CX23025</p> <p>(TOP VIEW)</p>	<p>M51978</p> <p>(TOP VIEW)</p>	<p>2SK1402A</p>	<p>TLP732GR-LF2</p>
<p>H014538BP</p> <p>(TOP VIEW)</p>	<p>AN5265</p>	<p>ERA38-06 R06.2ESB2 MTZJ7.5B R020ESB2 1S5199 1N4148</p>	<p>FR105 FR304</p>
<p>LA7016</p>	<p>0TA144ES 0TC124ES</p>	<p>02SB60</p>	<p>0AP236U</p>
<p>LA7830</p>	<p>KTC1815 2SA733-K 2SA1015 2SA1015-Y 2SC1815-GR</p>		<p>KLG124E</p>
<p>SI3122V</p>		<p>FR104 10E2</p>	
<p>TC4011BP TC4030BPHB</p> <p>(TOP VIEW)</p>	<p>2SC2958 2SB774-34</p>		
<p>#PC1377C</p> <p>(TOP VIEW)</p>	<p>BU406</p>	<p>SEL38100LCO5</p>	

SECTION 6 EXPLODED VIEWS

NOTE:

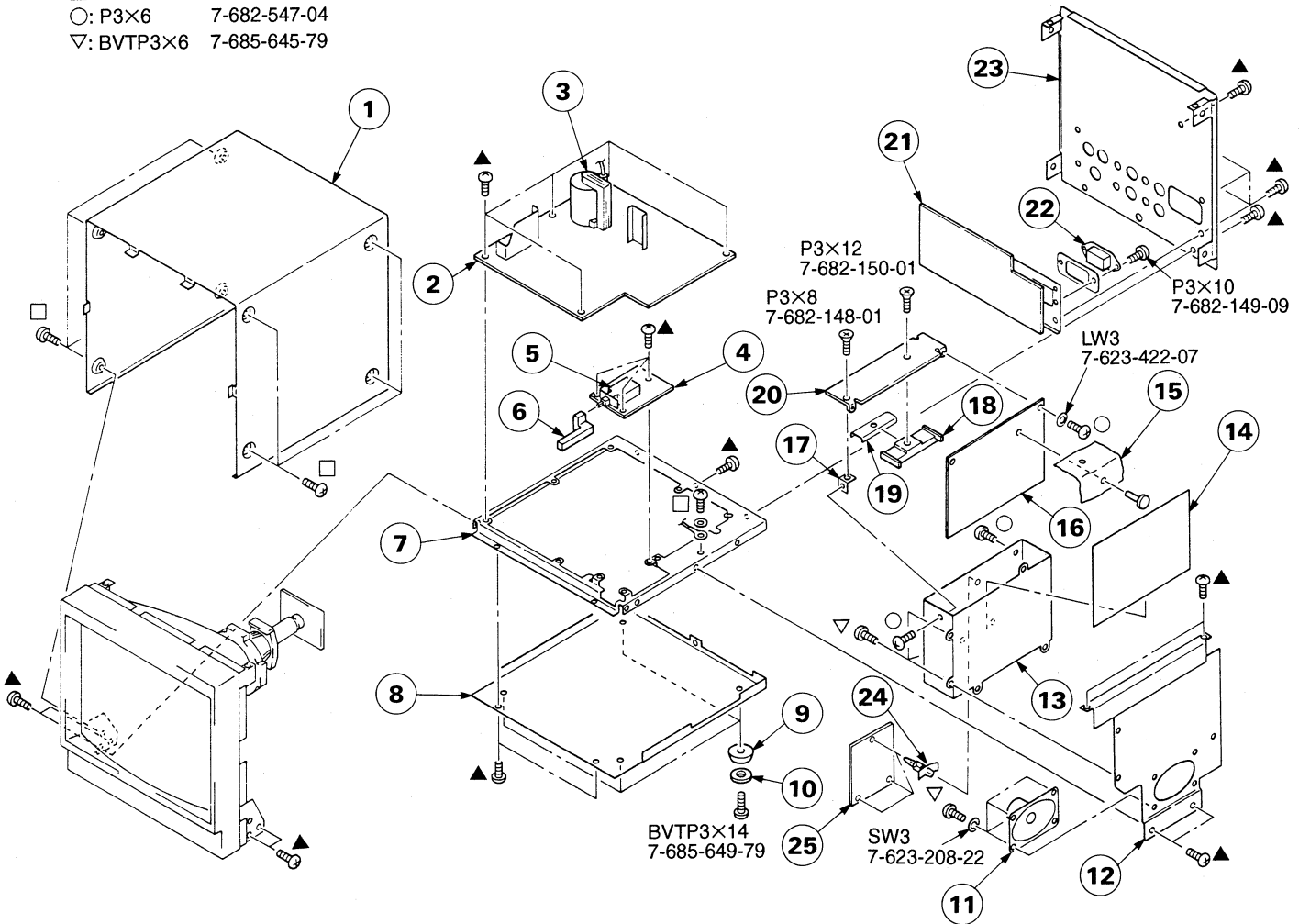
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS (PVM-96/96E only)

- ▲: BVTP3×8 7-685-646-79
- : P4×8 7-682-561-01
- : P3×6 7-682-547-04
- ▽: BVTP3×6 7-685-645-79



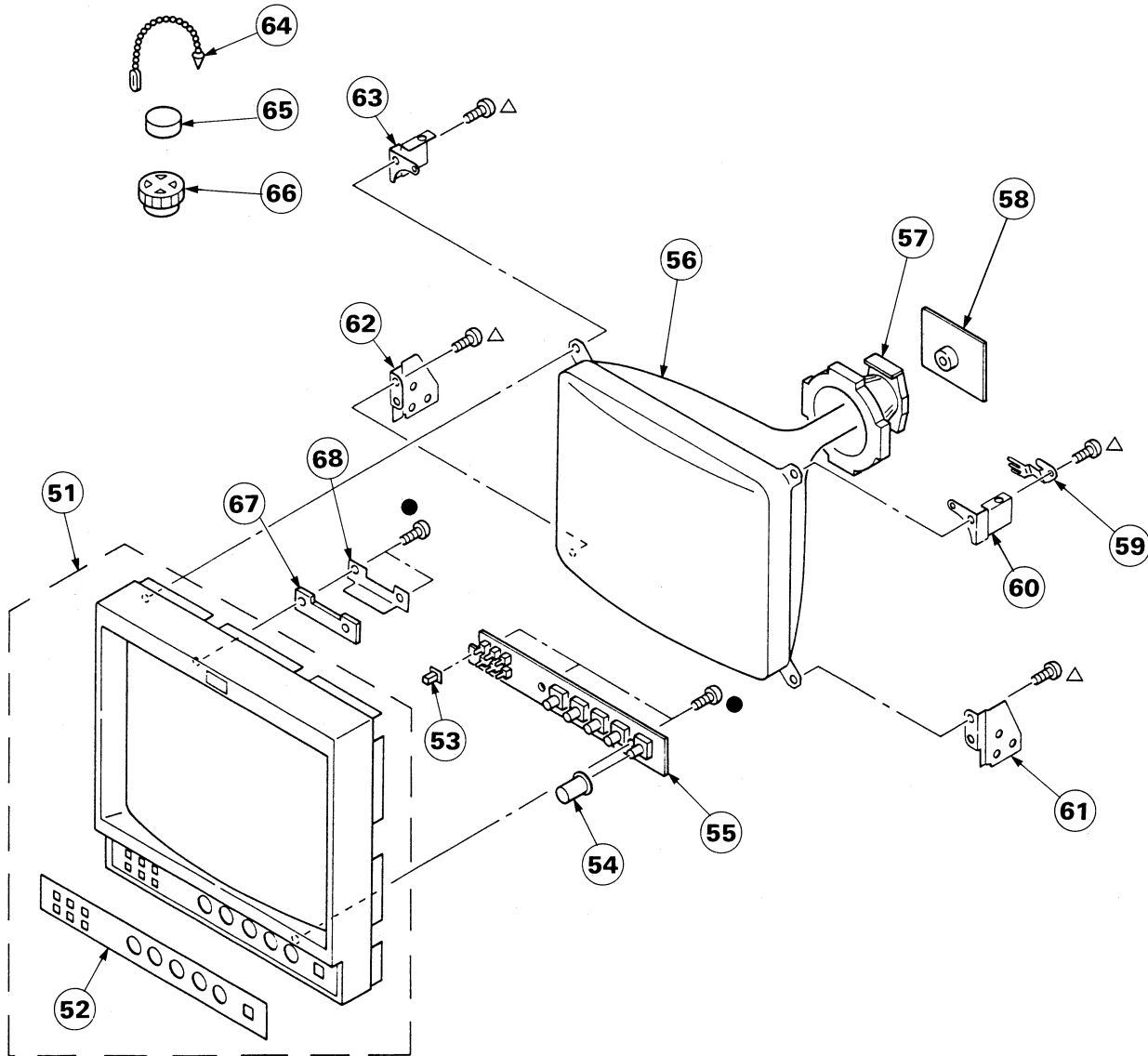
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*3-708-686-01	COVER, TOP		13	*3-708-693-01	CASE (U, B), SHIELD	
2	*9-905-668-01	A BOARD, COMPLETE		14	*3-708-707-01	SHEET, PC	
3	▲9-905-666-01	TRANSFORMER ASSY, FLYBACK		15	3-708-708-01	RUBBER	
4	*9-905-698-01	F BOARD		16	*9-905-683-01	G BOARD, COMPLETE	
5	▲1-571-433-11	SWITCH, PUSH (AC POWER)		17	*3-708-684-01	BRACKET, HEAT SINK	
6	3-708-685-01	KNOB, POWER SW		18	3-708-673-01	HOLDER, IC	
7	*3-708-689-01	CHASSIS, BOTTOM		19	*3-708-681-01	BRACKET, IC	
8	*3-708-688-01	COVER, BOTTOM		20	*3-708-692-01	HEAT SINK-AL	
9	3-708-672-01	FOOT		21	*9-905-707-01	Q BOARD, COMPLETE	
10	4-041-091-01	CUSHION, FOOT		22	▲1-560-222-21	AC INLET	
11	1-544-063-11	SPEAKER		23	*3-708-687-01	COVER, BACK	
12	*3-708-691-01	BRACKET, SUB (SMPS)		24	3-703-353-03	SUPPORT, PC BOARD	
				25	*9-905-708-01	G2 BOARD, COMPLETE	

6-2. PICTURE TUBE (PVM-96/96E only)

●: BVTP3×12 7-685-648-79
 △: BVTP4×14 7-685-662-14

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



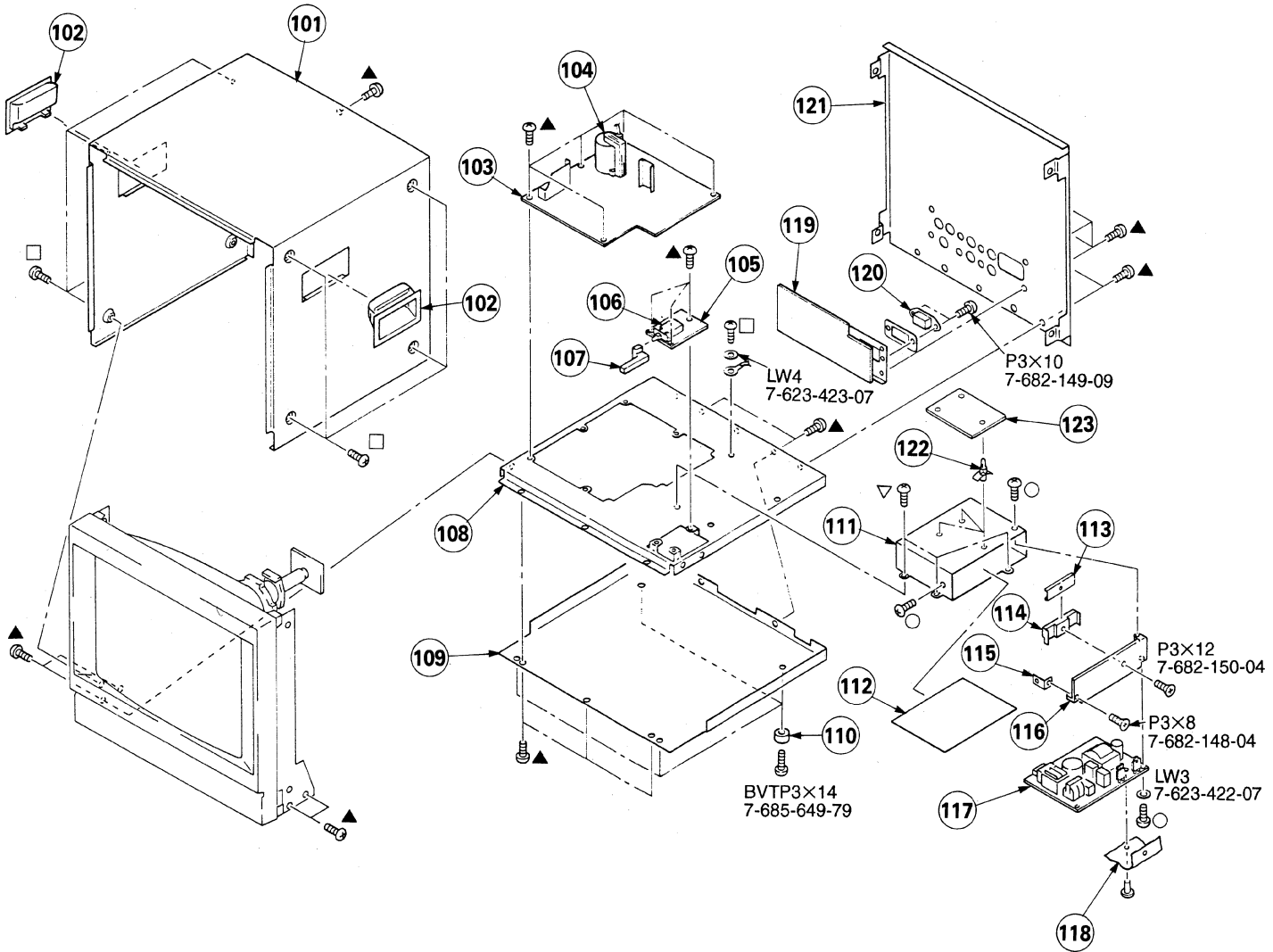
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-3705-089-1	BEZEL ASSY		60	*3-708-678-01	BRACKET-R (TOP), CRT	
52	3-708-694-01	PLATE, CONTROL	52	61	*3-708-679-01	BRACKET-R (BOTTOM), CRT	
53	3-708-711-01	KNOB, PUSH SW		62	*3-708-677-01	BRACKET-L (BOTTOM), CRT	
54	3-708-680-01	KNOB, CONTROL		63	*3-708-676-01	BRACKET-L (TOP), CRT	
55	*9-905-695-01	H BOARD		64	4-308-870-00	CLIP, LEAD WIRE	
56	△9-905-701-01	PICTURE TUBE (C9D01SWH1)		65	1-452-032-00	MAGNET, DISK;10MM φ	
57	△9-905-699-01	DEFLECTION YOKE		66	1-452-094-00	MAGNET, ROTATABLE DISK;15MM φ	
58	*9-905-690-01	C BOARD		67	*9-905-696-01	X BOARD	
59	3-708-682-01	SPRING, CRT GROUND		68	*3-708-709-01	PLATE, LIGHT INTERCEPTION	

6-3. CHASSIS (PVM-136/146E only)

- ▲: BVTP3×8 7-685-646-79
- : P4×8 7-682-561-01
- : P3×6 7-682-547-04
- ▽: BVTP3×6 7-685-645-79

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	*3-708-705-01	COVER, TOP		112	*3-708-707-01	SHEET, PC	
102	4-382-597-81	HANDLE		113	*3-708-681-01	BRACKET, IC	
103	*9-905-706-01	A BOARD, COMPLETE		114	3-708-673-01	HOLDER, IC	
104	▲9-905-666-01	TRANSFORMER ASSY, FLYBACK		115	*3-708-684-01	BRACKET, HEAT SINK	
105	*9-905-698-01	F BOARD		116	*3-708-692-01	HEAT SINK-AL	
106	▲1-571-433-11	SWITCH, PUSH (AC POWER)		117	*9-905-683-01	G BOARD, COMPLETE	
107	3-708-685-01	KNOB, POWER SW		118	3-708-708-01	RUBBER	
108	*3-708-702-01	CHASSIS, BOTTOM		119	9-905-707-01	Q BOARD, COMPLETE	
109	*3-708-703-01	COVER, BOTTOM		120	▲1-560-222-21	AC INLET	
110	3-708-697-01	FOOT		121	*3-708-704-01	COVER, BACK	
111	*3-708-693-01	CASE (U, B), SHIELD		122	3-703-353-03	SUPPORT, PC BOARD	
				123	*9-905-708-01	G2 BOARD, COMPLETE	

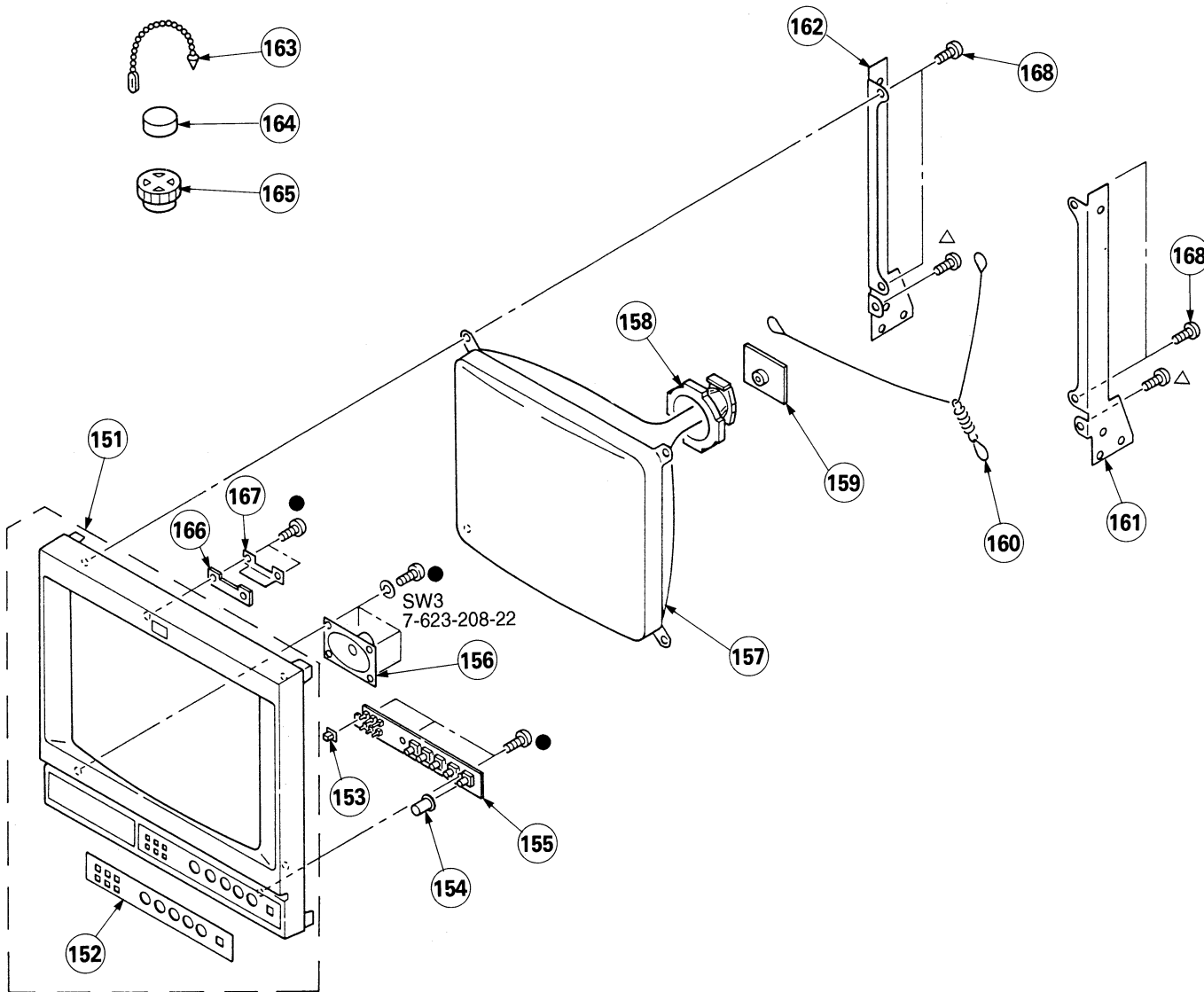
Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

6-4. PICTURE TUBE (PVM-136/146E only)

●: BVTP3×12 7-685-648-79

△: BVTP4×12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	X-3705-087-1	BEZEL ASSY		160	4-303-774-03	SPRING, CRT GROUND	
152	3-708-694-01	PLATE, CONTROL		161	*3-708-699-01	BRACKET-R, CRT	
153	3-708-711-01	KNOB, PUSH SW		162	*3-708-698-01	BRACKET-L, CRT	
154	3-708-680-01	KNOB, CONTROL		163	4-308-870-00	CLIP, LEAD WIRE	
155	*9-905-695-01	H BOARD		164	1-452-032-00	MAGNET, DISK;10MM φ	
156	1-544-063-01	SPEAKER		165	1-452-094-00	MAGNET, ROTATABLE DISK;15MM φ	
157	△ 9-905-703-01	PICTURE TUBE (C14D01SWH1)		166	*9-905-696-01	X BOARD	
158	△ 9-905-699-01	DEFLECTION YOKE		167	*9-708-710-01	PLATE, LIGHT INTERCEPTION	
159	*9-905-690-01	C BOARD		168	4-365-808-01	SCREW, TAPPING 5×25	

SECTION 7 ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF: μ F, PF: μ μ F

COILS

• MMH: mH, UH: μ H

- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*9-905-668-01	A BOARD, COMPLETE		(PVM-96/96E ONLY)	C312	1-126-964-11	ELECT	10MF
	*****			C313	1-130-483-00	FILM	0.01MF
				C314	1-130-483-00	FILM	0.01MF
*9-905-706-01	A BOARD, COMPLETE		(PVM-136/146E ONLY)	C315	1-129-898-00	FILM	0.0022MF
	*****			C316	1-108-680-11	FILM	0.001MF
				C317	1-102-973-00	CERAMIC	100PF
				C318	1-106-359-00	FILM	0.0047MF
				C319	1-124-903-11	ELECT	1MF
	<CAPACITOR>			C320	1-124-903-11	ELECT	1MF
C201	1-124-910-11	ELECT	47MF	20%	16V		
C202	1-124-120-11	ELECT	220MF	20%	16V		
C203	1-124-910-11	ELECT	47MF	20%	16V		
C204	1-108-812-11	FILM	0.047MF	5%	50V		
C205	1-108-812-11	FILM	0.047MF	5%	50V		
C206	1-101-880-00	CERAMIC	47PF	5%	50V		
C207	1-101-880-00	CERAMIC	47PF	5%	50V		
C208	1-102-971-00	CERAMIC	82PF	5%	50V		
C209	1-124-041-11	ELECT	220MF	20%	16V		
C210	1-123-369-00	ELECT	4.7MF	20%	50V		
C211	1-101-884-00	CERAMIC	56PF	5%	50V		
C212	1-102-971-00	CERAMIC	82PF	5%	50V		
C213	1-124-910-11	ELECT	47MF	20%	16V		
C214	1-123-369-00	ELECT	4.7MF	20%	50V		
C215	1-101-004-00	CERAMIC	0.01MF		50V		
C216	1-126-964-11	ELECT	10MF	20%	16V		
C217	1-108-816-11	FILM	0.1MF	5%	50V		
C218	1-102-971-00	CERAMIC	82PF	5%	50V		
C219	1-102-116-00	CERAMIC	680PF	10%	50V		
C220	1-123-949-00	ELECT	33MF	20%	200V		
C221	1-123-949-00	ELECT	10MF	20%	200V		
C222	1-124-903-11	ELECT	1MF	20%	50V		
C223	1-126-101-11	ELECT	100MF	20%	16V		
C224	1-126-964-11	ELECT	10MF	20%	16V		
C225	1-102-824-00	CERAMIC	470PF	5%	50V		
C226	1-102-824-00	CERAMIC	470PF	5%	50V		
C227	1-124-910-11	ELECT	47MF	20%	16V		
C228	1-108-812-11	FILM	0.047MF	5%	50V		
C229	1-101-004-00	CERAMIC	0.01MF		50V		
C230	1-124-903-11	ELECT	1MF	20%	50V		
C231	1-102-118-00	CERAMIC	0.0012MF	10%	50V		
C301	1-124-120-11	ELECT	220MF	20%	16V		
C302	1-101-361-00	CERAMIC	150PF	5%	50V		
C303	1-108-688-11	FILM	0.0047MF	10%	200V		
C304	1-126-964-11	ELECT	10MF	20%	16V		
C305	1-102-119-00	ELECT	0.0015MF	10%	50V		
C306	1-124-903-11	ELECT	1MF	20%	50V		
C307	1-108-798-11	FILM	0.0033MF	5%	50V		
C308	1-108-792-11	FILM	0.001MF	5%	50V		
C309	1-126-964-11	ELECT	10MF	20%	16V		
C310	1-108-814-11	FILM	0.068MF	5%	50V		
C311	1-126-964-11	ELECT	10MF	20%	16V		
C312	1-126-964-11	ELECT	10MF	20%	16V		
C313	1-130-483-00	FILM	0.01MF	5%	50V		
C314	1-130-483-00	FILM	0.01MF	5%	50V		
C315	1-129-898-00	FILM	0.0022MF	10%	630V		
C316	1-108-680-11	FILM	0.001MF	10%	100V		
C317	1-102-973-00	CERAMIC	100PF	5%	50V		
C318	1-106-359-00	FILM	0.0047MF	5%	50V		
C319	1-124-903-11	ELECT	1MF	20%	50V		
C320	1-124-903-11	ELECT	1MF	20%	50V		
C321	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C322	1-124-903-11	ELECT	1MF	20%	50V		
C323	1-101-004-00	CERAMIC	0.01MF		50V		
C326	1-101-004-00	CERAMIC	0.01MF		50V		
C327	1-101-004-00	CERAMIC	0.01MF		50V		
C401	1-124-902-00	ELECT	0.47MF	20%	50V		
C402	1-124-903-11	ELECT	1MF	20%	50V		
C403	1-108-843-11	FILM	0.033MF	10%	50V		
C404	1-124-360-00	ELECT	1000MF	10%	16V		
C405	1-130-483-00	FILM	0.01MF	5%	50V		
C406	1-124-903-11	ELECT	1MF	20%	50V		
C407	1-108-812-11	FILM	0.047MF	5%	50V		
C408	1-131-345-00	TANTALUM	0.47MF	20%	35V		
C409	1-108-802-11	FILM	0.0068MF	5%	50V		
C410	1-124-580-11	ELECT	330MF	20%	35V		
C411	1-124-572-11	ELECT	100MF	20%	50V		
C412	1-102-116-00	FILM	680PF	5%	50V		
C413	1-102-820-00	CERAMIC	330PF	5%	50V		
C414	1-102-980-00	CERAMIC	270PF	5%	50V		
C415	1-101-004-00	CERAMIC	0.01MF		50V		
C416	1-131-352-00	TANTALUM	6.8MF	20%	35V		
C417	1-124-480-11	ELECT	470MF	20%	25V		
C418	1-101-004-00	CERAMIC	0.01MF		50V		
C419	1-161-772-11	CERAMIC	0.1MF	20%	50V		
C420	1-124-478-11	ELECT	100MF	20%	25V		
C501	1-130-483-00	FILM	0.01MF	5%	50V		
C502	1-123-382-00	ELECT	3.3MF	20%	50V		
C503	1-102-820-00	CERAMIC	330PF	5%	50V		
C504	1-126-964-11	ELECT	10MF	20%	16V		
C505	1-108-812-11	FILM	0.047MF	5%	50V		
C506	1-101-884-00	CERAMIC	56PF	5%	50V		
C507	1-106-351-00	FILM	0.0022MF	5%	50V		
C508	1-130-485-00	FILM	0.015MF	5%	50V		
C509	1-108-808-11	FILM	0.022MF	5%	50V		
C510	1-126-964-11	ELECT	10MF	20%	16V		
C511	1-126-964-11	ELECT	10MF	20%	16V		
C512	1-123-381-00	ELECT	2.2MF	20%	50V		
C513	1-123-381-00	ELECT	2.2MF	20%	50V		
C514	1-126-964-11	ELECT	10MF	20%	16V		
C515	1-108-812-11	FILM	0.047MF	5%	50V		

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C516	1-108-684-11	FILM	0.0022MF 10% 200V	D503	8-719-911-19	DIODE 1SS119	
C517	1-106-351-00	FILM	0.0022MF 10% 100V	D504	8-719-911-19	DIODE 1SS119	
C518	1-129-720-00	FILM	0.033MF 10% 630V	D505	8-719-911-19	DIODE 1SS119	
C519	1-136-598-11	FILM	3.0MF 200V	D506	8-719-901-17	DIODE V11L	
C520	1-102-030-00	CERAMIC	330PF 10% 400V	D507	8-719-911-19	DIODE 1SS119	
C521	1-101-361-00	CERAMIC	150PF 5% 500V	D508	8-719-911-19	DIODE 1SS119	
C522	1-108-792-11	FILM	0.001MF 5% 50V	D511	8-719-911-19	DIODE 1SS119	
C523	1-129-717-00	FILM	0.018MF 10% 630V (PVM-96/96E ONLY)	D512	9-905-661-01	DIODE FR304	
C523	1-129-716-00	FILM	0.015MF 10% 630V (PVM-136/146E ONLY)	D513	8-719-985-76	DIODE FR104	
C524	1-136-557-11	FILM	0.0033MF 10% 630V	D514	8-719-985-76	DIODE FR104	
C525	1-126-105-11	ELECT	1000MF 20% 35V			<IC>	
C526	1-126-105-11	ELECT	1000MF 20% 35V	IC201	8-759-207-73	IC TC4030BPHB	
C527	1-124-120-11	ELECT	220MF 20% 25V	IC301	8-759-240-11	IC TC4011BP	
C528	1-136-244-11	FILM	0.1MF 5% 50V	IC302	8-759-207-73	IC TC4030BPHB	
C529	1-124-667-11	ELECT	10MF 20% 50V	IC303	8-759-345-38	IC HD14538BP	
C530	1-130-710-00	FILM	0.1MF 20% 250V	IC304	8-759-345-38	IC HD14538BP	
C531	1-108-686-11	FILM	0.0033MF 10% 200V	IC401	8-759-801-98	IC LA7830	
C532	1-108-626-11	FILM	0.01MF 10% 100V	IC501	8-759-100-60	IC UPC1377C	
		<CONNECTOR>		IC502	8-759-909-70	IC CX23025	
CN201	*9-905-674-01	CONNECTOR 8P		IC503	8-749-931-22	IC SI3122V	
CN202	*9-905-673-01	CONNECTOR 6P				<VIBRATOR>	
CN203	*9-905-672-01	CONNECTOR 5P		L201	1-409-332-00	CERAMIC TRAP 4.43MHz	
CN301	*9-905-673-01	CONNECTOR 6P		L202	1-577-099-11	VIBRATOR CERAMIC 3.58MHz	
CN302	*9-905-674-01	CONNECTOR 8P				<COIL>	
CN303	*9-905-670-01	CONNECTOR 2P		L203	1-408-421-00	INDUCTOR 100UH	
CN401	*9-905-676-01	CONNECTOR 2P L		L204	1-408-402-00	INDUCTOR 2.7UH	
CN501	*9-905-671-01	CONNECTOR 3P		L205	1-408-411-00	INDUCTOR 15UH	
CN502	*9-905-676-01	CONNECTOR 2P L		L206	1-408-411-00	INDUCTOR 15UH	
CN503	*9-905-671-01	CONNECTOR 3P		L207	1-408-417-00	INDUCTOR 47UH	
		<DIODE>		L208	1-408-411-00	INDUCTOR 15UH	
D201	8-719-921-63	DIODE MTZJ-7.5B		L401	1-408-411-00	INDUCTOR 15UH	
D202	8-719-200-02	DIODE 10E2		L501	1-410-093-11	INDUCTOR 33MMH	
D203	8-719-200-02	DIODE 10E2		L502	9-905-662-01	INDUCTOR WIDTH COIL 34UH	
D204	9-905-660-01	DIODE FR105		L503	9-905-663-01	INDUCTOR H-WIDTH COIL 34UH	
D205	8-719-911-19	DIODE 1SS119		L504	9-905-664-01	INDUCTOR HLC 80UH	
D206	8-719-911-19	DIODE 1SS119		L505	1-410-668-11	INDUCTOR 27UH	
D207	8-719-911-19	DIODE 1SS119				<TRANSISTOR>	
D208	8-719-911-19	DIODE 1SS119		Q201	8-729-281-53	TRANSISTOR 2SC1815-GR	
D301	8-719-911-19	DIODE 1SS119		Q202	8-729-173-38	TRANSISTOR 2SA733-K	
D302	8-719-911-19	DIODE 1SS119		Q203	8-729-900-36	TRANSISTOR DTC124ES	
D303	8-719-911-19	DIODE 1SS119		Q204	8-729-900-36	TRANSISTOR DTC124ES	
D304	8-719-911-19	DIODE 1SS119		Q205	8-729-281-53	TRANSISTOR 2SC1815-GR	
D305	8-719-911-19	DIODE 1SS119		Q206	8-729-281-53	TRANSISTOR 2SC1815-GR	
D307	8-719-911-19	DIODE 1SS119		Q207	8-729-281-53	TRANSISTOR 2SC1815-GR	
D308	8-719-911-19	DIODE 1SS119		Q208	8-729-281-53	TRANSISTOR 2SC1815-GR	
D309	8-719-911-19	DIODE 1SS119		Q209	8-729-281-53	TRANSISTOR 2SC1815-GR	
D310	8-719-911-19	DIODE 1SS119		Q210	8-729-281-53	TRANSISTOR 2SC1815-GR	
D311	8-719-911-19	DIODE 1SS119		Q211	8-729-281-53	TRANSISTOR 2SC1815-GR	
D312	8-719-911-19	DIODE 1SS119		Q212	8-729-281-53	TRANSISTOR 2SC1815-GR	
D313	8-719-911-19	DIODE 1SS119		Q213	9-885-007-63	TRANSISTOR KTC3229	
D314	8-719-911-19	DIODE 1SS119		Q214	8-729-281-53	TRANSISTOR 2SC1815-GR	
D315	8-719-911-19	DIODE 1SS119					
D316	8-719-911-19	DIODE 1SS119					
D401	8-719-911-19	DIODE 1SS119					
D402	8-719-911-19	DIODE 1SS119					
D403	8-719-911-19	DIODE 1SS119					
D404	8-719-200-02	DIODE 10E2					
D501	8-719-911-19	DIODE 1SS119					
D502	8-719-109-89	DIODE RD5.6ESB2					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q215	8-729-281-53	TRANSISTOR 2SC1815-GR		R237	1-249-429-11	CARBON 10K 5%	1/4W
Q216	8-729-281-53	TRANSISTOR 2SC1815-GR		R238	1-249-441-11	CARBON 100K 5%	1/4W
Q217	8-729-281-53	TRANSISTOR 2SC1815-GR		R239	1-249-429-11	CARBON 10K 5%	1/4W
Q218	8-729-173-38	TRANSISTOR 2SA733-K		R240	1-249-429-11	CARBON 10K 5%	1/4W
Q219	8-729-900-65	TRANSISTOR DTA144ES		R241	1-249-429-11	CARBON 10K 5%	1/4W
Q220	8-729-900-36	TRANSISTOR DTC124ES		R242	1-249-437-11	CARBON 47K 5%	1/4W
Q221	8-729-281-53	TRANSISTOR 2SC1815-GR		R243	1-247-897-11	CARBON 560K 5%	1/4W
Q222	8-729-900-36	TRANSISTOR DTC124ES		R244	1-249-428-11	CARBON 8.2K 5%	1/4W
Q301	8-729-900-65	TRANSISTOR DTA144ES		R245	1-249-417-11	CARBON 1K 5%	1/4W
Q302	8-729-900-65	TRANSISTOR DTA144ES		R246	1-249-413-11	CARBON 470 5%	1/4W
Q303	8-729-900-36	TRANSISTOR DTC124ES		R247	1-249-418-11	CARBON 1.2K 5%	1/4W
Q304	8-729-900-65	TRANSISTOR DTA144ES		R248	1-249-416-11	CARBON 820 5%	1/4W
Q305	8-729-900-36	TRANSISTOR DTC124ES		R249	1-247-843-31	CARBON 3.3K 5%	1/4W
Q306	8-729-900-65	TRANSISTOR DTA144ES		R250	1-249-429-11	CARBON 10K 5%	1/4W
Q401	8-729-900-65	TRANSISTOR DTA144ES		R251	1-249-429-11	CARBON 10K 5%	1/4W
Q402	8-729-900-36	TRANSISTOR DTC124ES		R252	1-249-421-11	CARBON 2.2K 5%	1/4W
Q403	8-729-900-36	TRANSISTOR DTC124ES		R253	1-247-847-31	CARBON 4.7K 5%	1/4W
Q404	8-729-900-36	TRANSISTOR DTC124ES		R254	1-249-419-00	CARBON 1.5K 5%	1/4W
Q405	8-729-900-36	TRANSISTOR DTC124ES		R255	1-249-408-11	CARBON 180 5%	1/4W
Q501	8-729-900-36	TRANSISTOR DTC124ES		R256	1-249-405-11	CARBON 100 5%	1/4W
Q502	8-729-900-36	TRANSISTOR DTC124ES		R257	1-249-417-11	CARBON 1K 5%	1/4W
Q503	8-729-111-55	TRANSISTOR 2SD1312-K		R258	1-249-410-11	CARBON 270 5%	1/4W
Q504	8-729-111-55	TRANSISTOR 2SD1312-K		R259	1-249-413-11	CARBON 470 5%	1/4W
Q505	9-995-367-01	TRANSISTOR BU406		R260	1-247-903-11	CARBON 1M 5%	1/4W
<RESISTOR>				R301	1-249-430-11	CARBON 12K 5%	1/4W
R201	1-249-429-11	CARBON 10K 5%	1/4W	R302	1-247-847-31	CARBON 4.7K 5%	1/4W
R202	1-249-431-11	CARBON 15K 5%	1/4W	R303	1-249-433-11	CARBON 22K 5%	1/4W
R203	1-249-415-11	CARBON 680 5%	1/4W	R304	1-249-411-11	CARBON 330 5%	1/4W
R204	1-249-410-11	CARBON 270 5%	1/4W	R305	1-249-429-11	CARBON 10K 5%	1/4W
R205	1-249-427-11	CARBON 6.8K 5%	1/4W	R306	1-249-441-11	CARBON 100K 5%	1/4W
R206	1-249-409-11	CARBON 220 5%	1/4W	R307	1-249-422-11	CARBON 2.7K 5%	1/4W
R207	1-249-410-11	CARBON 270 5%	1/4W	R308	1-249-430-11	CARBON 12K 5%	1/4W
R208	1-249-413-11	CARBON 470 5%	1/4W	R309	1-249-417-11	CARBON 1K 5%	1/4W
R209	1-249-405-11	CARBON 100 5%	1/4W	R310	1-249-430-11	CARBON 12K 5%	1/4W
R210	1-249-433-11	CARBON 22K 5%	1/4W	R311	1-249-429-11	CARBON 10K 5%	1/4W
R211	1-249-411-11	CARBON 330 5%	1/4W	R312	1-249-429-11	CARBON 10K 5%	1/4W
R212	1-249-417-11	CARBON 1K 5%	1/4W	R313	1-249-441-11	CARBON 100K 5%	1/4W
R213	1-249-417-11	CARBON 1K 5%	1/4W	R314	1-249-429-11	CARBON 10K 5%	1/4W
R214	1-249-420-11	CARBON 1.8K 5%	1/4W	R315	1-249-417-11	CARBON 1K 5%	1/4W
R215	1-249-428-11	CARBON 8.2K 5%	1/4W	R316	1-249-439-11	CARBON 68K 5%	1/4W
R216	1-249-426-11	CARBON 5.6K 5%	1/4W	R317	1-247-847-31	CARBON 4.7K 5%	1/4W
R217	1-249-417-11	CARBON 1K 5%	1/4W	R318	1-249-417-11	CARBON 1K 5%	1/4W
R218	1-249-405-11	CARBON 100 5%	1/4W	R319	1-249-439-11	CARBON 68K 5%	1/4W
R219	1-249-417-11	CARBON 1K 5%	1/4W	R320	1-247-847-31	CARBON 4.7K 5%	1/4W
R220	1-249-414-11	CARBON 560 5%	1/4W	R321	1-249-417-11	CARBON 1K 5%	1/4W
R221	1-249-401-11	CARBON 47 5%	1/4W	R322	1-249-417-11	CARBON 1K 5%	1/4W
R222	1-216-482-11	METAL OXIDE 1.8K 5%	3W	R323	1-249-439-11	CARBON 68K 5%	1/4W
R223	1-247-891-00	CARBON 330K 5%	1/4W	R324	1-247-843-31	CARBON 3.3K 5%	1/4W
R224	1-249-405-11	CARBON 100 5%	1/4W	R325	1-247-847-31	CARBON 4.7K 5%	1/4W
R225	1-247-841-11	CARBON 2.7K 5%	1/4W	R326	1-249-429-11	CARBON 10K 5%	1/4W
R226	1-247-809-31	CARBON 120 5%	1/4W	R327	1-249-429-11	CARBON 10K 5%	1/4W
R227	1-249-417-11	CARBON 1K 5%	1/4W	R328	1-249-429-11	CARBON 10K 5%	1/4W
R228	1-249-430-11	CARBON 12K 5%	1/4W	R329	1-249-429-11	CARBON 10K 5%	1/4W
R229	1-249-415-11	CARBON 680 5%	1/4W	R330	1-249-419-11	CARBON 1.5K 5%	1/4W
R230	1-249-420-11	CARBON 1.8K 5%	1/4W	R331	1-249-429-11	CARBON 10K 5%	1/4W
R231	1-249-429-11	CARBON 10K 5%	1/4W	R332	1-249-426-11	CARBON 5.6K 5%	1/4W
R232	1-249-429-11	CARBON 10K 5%	1/4W	R333	1-249-426-11	CARBON 5.6K 5%	1/4W
R233	1-247-429-11	CARBON 10K 5%	1/4W	R334	1-247-847-31	CARBON 4.7K 5%	1/4W
R234	1-249-433-11	CARBON 22K 5%	1/4W	R401	1-249-435-11	CARBON 33K 5%	1/4W
R235	1-249-409-11	CARBON 220 5%	1/4W	R402	1-249-433-11	CARBON 22K 5%	1/4W
R236	1-249-429-11	CARBON 10K 5%	1/4W	R403	1-249-428-11	CARBON 8.2K 5%	1/4W
				R404	1-249-422-11	CARBON 2.7K 5%	1/4W
				R405	1-249-437-11	CARBON 47K 5%	1/4W
				R406	1-249-422-11	CARBON 2.7K 5%	1/4W



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK
C505	1-106-375-12	FILM 0.022MF 10% 100V	
C506	1-106-375-12	FILM 0.022MF 10% 100V	
C601	1-136-185-00	FILM 0.22MF 20% 250V	
C602	1-136-185-00	FILM 0.22MF 20% 250V	
C603	1-161-973-00	CERAMIC 220PF 10% 400V	
C604	1-161-973-00	CERAMIC 220PF 10% 400V	
C605	1-161-973-00	CERAMIC 220PF 10% 400V	
C608	1-162-599-12	CERAMIC 4700PF 20% 400V	
C609	1-162-599-12	CERAMIC 4700PF 20% 400V	
C610	1-125-724-11	ELECT 180MF 20% 400V	
C611	1-136-206-21	FILM 0.033MF 10% 630V	
C612	1-126-803-11	ELECT 47MF 20% 50V	
C613	1-108-642-11	FILM 0.22MF 10% 100V	
C614	1-108-642-11	FILM 0.22MF 10% 100V	
C651	1-161-925-00	CERAMIC 100PF 10% 500V	
C652	1-124-922-11	ELECT 1000MF 20% 50V	
C653	1-124-920-11	ELECT 330MF 20% 50V	
C654	1-130-483-00	FILM 0.01MF 5% 100V	
<CONNECTOR>			
CN610	*1-560-436-00	CONNECTOR 3P	
CN611	*1-564-518-11	CONNECTOR 3P	
<DIODE>			
D601	8-719-911-19	DIODE 1SS119	
D602	8-719-911-19	DIODE 1SS119	
D603	8-719-970-87	DIODE ERA38-06	
D604	8-719-970-87	DIODE ERA38-06	
D605	8-719-110-53	DIODE RD20ESB2	
D651	8-719-971-08	DIODE ESAC39M-06C	
<IC>			
IC601	8-759-637-30	IC M51978	
IC651	8-759-908-15	IC TL431CLP	
<COIL>			
L601	9-905-681-01	LFT 38MMH	
L602	9-905-679-01	COIL, CHOKE LFT 13MMH	
L651	1-424-255-11	COIL, CHOKE 10UH	
L652	9-905-681-01	LFT 100UH	
<PHOTO SENSOR>			
PH601	Δ 8-719-159-90	PS2652-P	
<TRANSISTOR>			
Q601	8-729-322-18	TRANSISTOR 2SK1402A	
<RESISTOR>			
R501	1-249-441-11	CARBON 100K 5% 1/4W	
R502	1-249-417-11	CARBON 1K 5% 1/4W	
R503	1-249-433-11	CARBON 22K 5% 1/4W	
R504	1-247-887-00	CARBON 220K 5% 1/4W	
R505	1-249-433-11	CARBON 22K 5% 1/4W	
R506	1-249-432-11	CARBON 18K 5% 1/4W	
R507	1-249-397-11	CARBON 22 5% 1/6W	
R601	1-216-411-11	CEMENT 1.5 5% 5W	F

REF. NO.	PART NO.	DESCRIPTION	REMARK
R602	1-216-411-11	CEMENT 1.5 5% 5W	F
R603	1-215-904-11	METAL OXIDE 100K 5% 2W	
R604	1-215-904-11	METAL OXIDE 100K 5% 2W	
R605	1-212-865-00	FUSIBLE 22 5% 1/4W	
R606	1-249-404-00	CARBON 82 5% 1/4W	
R607	1-260-128-91	CARBON 270K 5% 1/4W	
R608	1-260-128-91	CARBON 270K 5% 1/4W	
R609	1-215-904-11	METAL OXIDE 100K 5% 2W	
R610	1-216-341-11	WIREWOUND 0.22 10% 3W	
R611	1-249-396-11	CARBON 18 5% 1/4W	
R612	1-249-399-11	CARBON 33 5% 1/4W	
R613	1-215-904-11	METAL OXIDE 100K 5% 2W	
R651	1-215-886-11	METAL OXIDE 100 5% 2W	
R652	1-215-886-11	METAL OXIDE 100 5% 2W	
R653	1-260-107-11	CARBON 4.7K 5% 1/4W	
R654	1-260-107-11	CARBON 4.7K 5% 1/4W	
R655	1-249-435-11	CARBON 33K 5% 1/4W	
R656	1-249-433-11	CARBON 22K 5% 1/4W	
R657	1-249-422-11	CARBON 2.7K 5% 1/4W	
R658	1-249-423-11	CARBON 3.3K 5% 1/4W	
R666	1-218-265-11	METAL OXIDE 8.2M 5% 1W	
<VARIABLE RESISTOR>			
Δ RV651	Δ 1-228-744-11	RES, ADJ, CARBON 470	
<TRANSFORMER>			
T601	9-905-682-01	TRANSFORMER, CONVERTER	

	*9-905-708-01	G2 BOARD, COMPLETE	

<CAPACITOR>			
C670	1-102-973-00	CERAMIC 100PF 10% 100V	
C671	1-124-910-11	ELECT 47MF 20% 50V	
C672	1-123-382-00	ELECT 3.3MF 20% 50V	
C673	1-124-927-11	ELECT 4.7MF 20% 50V	
<CONNECTOR>			
CN601	*1-564-521-11	CONNECTOR 6P	
<DIODE>			
D670	8-719-100-41	DIODE RD15ESB2	
D671	8-719-911-19	DIODE 1SS119	
D672	8-719-911-19	DIODE 1SS119	
<TRANSISTOR>			
Q670	8-729-304-06	TRANSISTOR 2SA1488-0	
Q671	8-729-173-38	TRANSISTOR 2SA733-K	
Q672	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q673	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q674	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q675	8-729-281-53	TRANSISTOR 2SC1815-GR	
<RESISTOR>			
R670	1-247-700-11	CARBON 100 5% 1/4W	F

• The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK
D120	8-719-911-19	DIODE 1SS119	
D121	8-719-911-19	DIODE 1SS119	
D122	8-719-911-19	DIODE 1SS119	
D123	8-719-911-19	DIODE 1SS119	
D124	8-719-911-19	DIODE 1SS119	
D125	8-719-150-56	DIODE RD12EB2	
D126	8-719-911-19	DIODE 1SS119	
D127	8-719-109-89	DIODE RD5.6ESB2	
<IC>			
IC101	8-759-800-81	IC LA7016	
IC102	8-759-800-81	IC LA7016	
IC103	8-759-800-81	IC LA7016	
IC104	8-759-420-04	IC AN5265	
<TRANSISTOR>			
Q101	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q102	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q103	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q106	8-729-173-38	TRANSISTOR 2SA733-K	
Q107	8-729-173-38	TRANSISTOR 2SA733-K	
Q108	8-729-173-38	TRANSISTOR 2SC2235	
Q109	8-729-281-53	TRANSISTOR 2SC1815-GR	
<RESISTOR>			
R101	1-247-804-11	CARBON	75 5% 1/6W
R102	1-249-417-11	CARBON	1K 5% 1/4W
R103	1-249-439-11	CARBON	68K 5% 1/4W
R104	1-249-438-11	CARBON	56K 5% 1/4W
R105	1-249-421-11	CARBON	2.2K 5% 1/4W
R106	1-249-411-11	CARBON	330 5% 1/4W
R107	1-249-405-11	CARBON	100 5% 1/4W
R108	1-249-433-11	CARBON	22K 5% 1/4W
R109	1-249-433-11	CARBON	22K 5% 1/4W
R110	1-249-405-11	CARBON	100 5% 1/4W
R111	1-249-411-11	CARBON	330 5% 1/4W
R112	1-249-421-11	CARBON	2.2K 5% 1/4W
R113	1-249-438-11	CARBON	56K 5% 1/4W
R114	1-249-439-11	CARBON	68K 5% 1/4W
R115	1-249-417-11	CARBON	1K 5% 1/4W
R116	1-247-804-11	CARBON	75 5% 1/6W
R117	1-249-417-11	CARBON	1K 5% 1/4W
R118	1-249-439-11	CARBON	68K 5% 1/4W
R119	1-249-433-11	CARBON	22K 5% 1/4W
R120	1-249-433-11	CARBON	22K 5% 1/4W
R121	1-249-430-11	CARBON	12K 5% 1/4W
R123	1-249-411-11	CARBON	330 5% 1/4W
R124	1-249-438-11	CARBON	56K 5% 1/4W
R125	1-247-804-11	CARBON	75 5% 1/6W
R126	1-249-421-11	CARBON	2.2K 5% 1/4W
R127	1-249-430-11	CARBON	12K 5% 1/4W
R128	1-249-437-11	CARBON	47K 5% 1/4W
R129	1-249-437-11	CARBON	47K 5% 1/4W
R130	1-249-437-11	CARBON	47K 5% 1/4W
R131	1-249-437-11	CARBON	47K 5% 1/4W
R132	1-249-417-11	CARBON	1K 5% 1/4W
R133	1-249-417-11	CARBON	1K 5% 1/4W
R134	1-249-437-11	CARBON	47K 5% 1/4W
R135	1-247-897-11	CARBON	560K 5% 1/4W
R136	1-249-431-11	CARBON	15K 5% 1/4W
R137	1-249-441-11	CARBON	100K 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R138	1-247-887-00	CARBON	220K 5% 1/4W
R139	1-249-405-11	CARBON	100 5% 1/4W
R140	1-247-897-11	CARBON	560K 5% 1/4W
R141	1-249-431-11	CARBON	15K 5% 1/4W
R142	1-249-441-11	CARBON	100K 5% 1/4W
R143	1-214-921-00	CARBON	220K 5% 1/2W
R144	1-249-405-11	CARBON	100 5% 1/4W
R145	1-249-421-11	CARBON	2.2K 5% 1/4W
R146	1-247-855-11	CARBON	10K 5% 1/4W
R147	1-249-435-11	CARBON	33K 5% 1/4W
R148	1-247-711-11	CARBON	680 5% 1/4W
R149	1-249-389-11	CARBON	4.7 5% 1/4W
R150	1-249-435-11	CARBON	33K 5% 1/4W
R151	1-249-433-11	CARBON	22K 5% 1/4W
R152	1-249-424-11	CARBON	3.9K 5% 1/4W
R153	1-249-393-11	CARBON	10 5% 1/4W
R154	1-249-389-11	CARBON	4.7 5% 1/4W
R155	1-249-417-11	CARBON	1K 5% 1/4W
R156	1-249-409-11	CARBON	220 5% 1/4W
R157	1-249-439-11	CARBON	68K 5% 1/4W
R158	1-249-439-11	CARBON	68K 5% 1/4W
R159	1-249-441-11	CARBON	100K 5% 1/4W
R160	1-249-426-11	CARBON	5.6K 5% 1/4W

9-905-696-01		X BOARD	*****
<DIODE>			
D001	8-719-023-78	DIODE LED SEL3810DLC05	
D002	8-719-023-78	DIODE LED SEL3810DLC05	
D003	8-719-023-78	DIODE LED SEL3810DLC05	

MISCELLANEOUS			

1-544-063-11		SPEAKER	
Δ 1-560-222-21		INLET, AC	
F501	Δ 1-532-203-11	FUSE, TIME-LAG 2A/250V	(PVM-96E/146E ONLY)
F501	Δ 1-532-743-11	FUSE, GLASS TUBE 2A/125V	(PVM-96/136 ONLY)
F901	Δ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V	(PVM-96/136 ONLY)
F901	Δ 1-576-230-41	FUSE (H.B.C) T3.15A/250V	(PVM-96E/146E ONLY)
L901	Δ 9-905-699-01	DEFLECTION YOKE	
T502	Δ 9-905-666-01	TRANSFORMER ASSY, FLYBACK	
V901	Δ 9-905-701-01	PICTURE TUBE C-9D01SWH1	(PVM-96/96E ONLY)
V901	Δ 9-905-703-01	PICTURE TUBE C-14D01SWH1	(PVM-136/146E ONLY)

ACCESSORIES & PACKING MATERIALS			

<PVM-96/96E>			
Δ 1-551-812-11	CORD, POWER 7A/125V		(PVM-96 ONLY)
Δ 1-590-910-11	CORD SET, POWER 10A/250V		(PVM-96E ONLY)
*2-990-241-02	HOLDER (A), PLUG		
*2-990-242-01	HOLDER (B), PLUG		(PVM-96 ONLY)
*3-170-078-01	HOLDER (B), PLUG		(PVM-96E ONLY)
*3-704-296-01	BAG, PROTECTION		
3-708-670-21	MANUAL, INSTRUCTION		(PVM-96 ONLY)
3-708-670-41	MANUAL, INSTRUCTION		(PVM-96E ONLY)
*3-708-713-01	INDIVIDUAL CARTON		(PVM-96 ONLY)

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The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
	*3-708-715-01	INDIVIDUAL CARTON	(PVM-96E ONLY)
	*3-708-722-01	CUSHION (LEFT UPPER)	
	*3-708-723-01	CUSHION (RIGHT LOWER)	
	*3-708-724-01	CUSHION (RIGHT UPPER)	
	*3-708-725-01	CUSHION (LEFT LOWER)	
	1-690-871-11	REMOTE CONNECTOR (8-PIN MINI DIN)	
		<PVM-136/146E>	
	Δ 1-551-812-11	CORD, POWER 7A/125V	(PVM-136 ONLY)
	Δ 1-590-910-11	CORD, POWER 10A/250V	(PVM-146E ONLY)
	*2-990-241-02	HOLDER (A), PLUG	
	*2-990-242-01	HOLDER (B), PLUG	(PVM-136 ONLY)
	*3-170-078-01	HOLDER (B), PLUG	(PVM-146E ONLY)
	*3-704-302-01	BAG, PROTECTION	
	3-708-670-21	MANUAL, INSTRUCTION	(PVM-136 ONLY)
	3-708-670-41	MANUAL, INSTRUCTION	(PVM-146E ONLY)
	*3-708-718-01	INDIVIDUAL CARTON	(PVM-136 ONLY)
	*3-708-721-01	INDIVIDUAL CARTON	(PVM-146E ONLY)
	*3-708-743-01	CUSHION (LEFT LOWER)	
	*3-708-744-01	CUSHION (RIGHT UPPER)	
	*3-708-745-01	CUSHION (RIGHT LOWER)	
	*3-708-753-01	CUSHION (LEFT UPPER)	
	*4-041-648-01	PLATE, TALLY	
	1-690-871-11	REMOTE CONNECTOR (8-PIN MINI DIN)	

